ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
0T2X	Waste Trailer	27VC - does not vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Tank Trailer – rolling stock

Manufacturer:	**Model number:**	**Serial number:**
VARIES	VARIES	VARIES
Construction date:	**Installation date:**	**Modification date(s):**
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Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	NA	NA
Particulate Matter (PM_{10})	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
1-21CV1	Screw Conveyor	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
SCREW CONVEYOR ON 1-21D1

Manufacturer:	**Model number:**	**Serial number:**
FLEXICON CORPORATION	MODEL# 1450 UTFW-S045-015-X	---
Construction date:	**Installation**	**Modification date(s):**
---	May 2009	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
145 CU FT/HR

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
05LX	A-1846 Reactor with Condenser (3-5CD8)	05KC and 05MC-Vents via 05LE and 05ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, Glass Lined, Design Pressure SHELL 100psi to -15psi
JKT 450 PSI @ 500 F

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 918	2027
Construction date:	**Installation date:**	**Modification date(s):**
---	June 2004	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.02	varies
Particulate Matter (PM_{10})	0.02	varies
Total Particulate Matter (TSP)	0.04	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	20.79	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	20.79	varies
Formaldehyde	0.0011	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
05NX	Condensate Receiver (05NX); Vacuum Jet (3-6VJ7)(06BX)	None – vents via 05NE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 125 gals, Glass Lined, Design Pressure 100psi

Manufacturer:	**Model number:**	**Serial number:**
Dedietrich Inc	NB4367	33545
Construction date:	**Installation date:**	**Modification date(s):**
---	June 1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
125 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.94	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.94	varies
Formaldehyde	0.0007	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
06BX	HOT WELL TANK	None-Vents via 05NE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VERTICLE VESSEL, HASTELLOY C, 100 PSIG AND FULL VACUUM @ 300 DEG F.

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX	---	1157
Construction date:	**Installation:**	**Modification date(s):**
1995	FEBRUARY 1996	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
275 GAL

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
06CX	Step II Reactor (2-6K3); Condenser (3-6CD3); Condenser (3-6CD3A)	None – vents via 06EE and 06FE (IH vent)

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 5,000 gals, Inconel 600, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
Fourinx Corp.	NB294	385
Construction date:	**Installation date:**	**Modification date(s):**
---	Sep-88	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5,000 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.01	varies
Particulate Matter (PM_{10})	0.01	varies
Total Particulate Matter (TSP)	0.021	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	32.41	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	30.70	varies
Formaldehyde	<0.01	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
06NX	Split Tank with Condenser (3-6CD8)	06VC, 05KC-Vents to 05LE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 4,000 gals, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 5849	35205
Construction date:	**Installation date:**	**Modification date(s):**
---	1991	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No

If yes, is it?
___ Indirect Fired ___Direct Fired

Maximum design heat input and/or maximum horsepower rating:
Not Applicable

Type and Btu/hr rating of burners:
Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	<0.01	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	<0.01	varies
Formaldehyde	0.0012	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
06QX	Salt Wash Tank	None-Vents to 06QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 750 gals, Inconel 600, Design Pressure 75psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 296	387
Construction date:	**Installation date:**	**Modification date(s):**
---	September 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
750 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
06SX	A-1846 Wash/Dehydration Reactor with Condensers (N-6CD1 & N-6CD1A)	None-Vents to 06SE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 3,000 gals, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 6800	36086
Construction date:	**Installation date:**	**Modification date(s):**
---	1997	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 gal

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	4.38	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	4.38	varies
Formaldehyde	0.0007	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

YES Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? _X_ Yes ___ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
07AX	Step I Reactor; Condenser (3-7CD4); Condenser (3-7CD4A); Industrial hygiene vent for Step I Reactor	07CC (on hygiene vent)-Vents to 07AE, 07CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 3,000 gals, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 5581	39917
Construction date:	**Installation date:**	**Modification date(s):**
---	February 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.007	varies
Particulate Matter (PM_{10})	0.007	varies
Total Particulate Matter (TSP)	0.014	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	2.29	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	2.09	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
07BX	Waste Hold Tank	None-Vents to 07BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 2,000 gals, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 1108	30230
Construction date:	**Installation date:**	**Modification date(s):**
---	March 1977	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.46	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.23	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
07DX	Toluene Receiver	075C- Vents to 09CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 2000 gals, 304ss, Design Pressure 25psi to -15psi @ 250°F

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 2906	88-273
Construction date:	**Installation date:**	**Modification date(s):**
---	June 1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.95	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.94	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
07GX	Morpholine Head Tank	None-Vents to 07GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 2000 gals, 304ss, Design Pressure 30psi

Manufacturer:	**Model number:**	**Serial number:**
CAPITAL CITY	NB 1106	45037
Construction date:	**Installation date:**	**Modification date(s):**
---	May 1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.09	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
07KX	Filter Feed Kettle (normal operations, emergency by-pass, Industrial hygiene vent); Condensers (3-7CD8 & 3-7CD8A)	None-Vents to 07FE, 07NE, 07QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Filter Feed Kettle, Vertical Vessel, 5,200 gals, Inconel 600, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 1866	1989
Construction date:	**Installation date:**	**Modification date(s):**
---	Nov 2003	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5,200 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	6.02	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	6.01	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
07NY	Splitter Bowl	None-Vents to 07NE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Overheads Splitter Bowl - BHS Filter Feed Tank, Vertical Vessel, Carbon Steel, Design Pressure 100psi @ 150`F

Manufacturer:	**Model number:**	**Serial number:**
Carbone of America	NB 150	8903
Construction date:	**Installation date:**	**Modification date(s):**
---	November 1993	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
63.85 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
08AX	Filter; Condensers (3-8CD8) and (3-8CD8A); Filter (Industrial hygiene vent to atmosphere)	None-Vents to 08BE and 05KE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
BHS FILTER, 2-8F2 90PSIG @ 250° F

Manufacturer:	**Model number:**	**Serial number:**
LUDWIG EDELGMBH & CO. GERMANY	TDF 1440/80/13	92044/1
Construction date:	**Installation date:**	**Modification date(s):**
---	OCT 1992	JAN 2000

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,233 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	7.83	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	7.83	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
08BX	Industrial hygiene vent for Filter Aid Tank; Filter Aid Tank; Condensers (3-8CD8) and (3-8CD8A)	None- Vents to 05KE and 08BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
BHS Filter Precoat Tank, Vertical Vessel, 1,500 gals, Inconel 600, Design Pressure 30psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 853	878
Construction date:	**Installation date:**	**Modification date(s):**
---	November 1992	September 2005

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,500 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.64	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.63	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
08FX	FUNDA® Filter	26GX - Vents to 26GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
65m² (700 sq.ft.) FUNDA® Filter

Manufacturer:	**Model number:**	**Serial number:**
De Dietrich Process Systems	Type R	54065-1
Construction date:	**Installation date:**	**Modification date(s):**
---	SEP 2013	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
65m² (700 sq.ft.)

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	---
Particulate Matter (PM_{10})	<0.01	---
Total Particulate Matter (TSP)	<0.01	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	11.09	varies
Hazardous Air Pollutants	**Potential Emissions (After Control)**	
	PPB (lb/batch)	TPY
THAP	11.09	varies
Regulated Pollutants other than Criteria and HAP	**Potential Emissions (After Control)**	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
08RX	Pastillator	08RC-Vents to 08RE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
SANDVIK ROTOFORM 3000 - PASTILLATOR

Manufacturer:	**Model number:**	**Serial number:**
SANDVIK PROCESS SYSTEMS, INC.	ROTOFORM 3000	78153RF/96
Construction date:	**Installation date:**	**Modification date(s):**
---	March 1997	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
500 LB/HR Design

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.48	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09AX	Strip Receiver (3-9K3) Condenser (3-9CD3)	None-Vents to 09AE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
BHS Steam Strip Condensate Tank ,Vertical Vessel, 750 gals, Inconel 600, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 1372	1461
Construction date:	**Installation date:**	**Modification date(s):**
---	MARCH 1998	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
750 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	2.56	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	2.56	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09CX	Filtrate Receiver; Condenser (3-9CD4); Condenser (3-9CD4A)	None-Vents to 09CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Partial Toluene Strip Tank – HALS, Vertical Vessel, 5,000 gals, Inconel 600, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 852	877
Construction date:	**Installation date:**	**Modification date(s):**
---	November 1992	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.63	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.63	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09DX	Splitter Bowl	075C Vents to- 09CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Overheads Splitter Bowl - Partial Toluene Strip Tank, Vertical Vessel, DESIGN:100 PSIG @ 300 DEG. MDMT:32 DEG AT 100 PSI

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 841	893
Construction date:	**Installation date:**	**Modification date(s):**
---	April 1992	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
74 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	2.06	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	2.06	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09FX	Mott Filter	None-No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
FILTER, MOTT, 36" HYPULSE LSI

Manufacturer:	**Model number:**	**Serial number:**
MOTT CORPORATION	8436028-005	1778
Construction date:	**Installation date:**	**Modification date(s):**
2010	NOVEMBER 2010	NA

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
314 sq ft

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09KX	Strip Kettle; Condenser (3-9CD2);Condenser (3-9CD2A)	None Vents to-09NE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
UV 3346 Finish Toluene Strip Tank, Vertical Vessel, 3,000 gals, Inconel 600, Design Pressure 75psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB B35	394
Construction date:	**Installation date:**	**Modification date(s):**
---	September 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	11.57	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	11.54	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09PY	Condensate Receiver; Vacuum Pump (09PX); Condensers (3-9CD5) and (3-9CD5A)	None- Vents to 09PE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Finish Toluene Strip Tank Vacuum Receiver, Vertical Vessel, 250 gals, 304ss, Design Pressure 70psi

Manufacturer:	**Model number:**	**Serial number:**
CAPITAL CITY	NB 1105	45037
Construction date:	**Installation date:**	**Modification date(s):**
---	May 1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
250 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.81	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.81	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09RX	Electric Oil Heater with Hot Oil Surge Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
125 KW HEATER TUBE TYPE 150 PSI @ 750'F, MDMT 20'F @ 150 PSI

Manufacturer:	**Model number:**	**Serial number:**
Chromalox	TMOL-36125E3XX480V3PH	02617
Construction date:	**Installation date:**	**Modification date(s):**
---	August 1996	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
125 KW

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
09TX	Knockout Pot 3-9T4	None - Vents via 09CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
PRESSURE VESSEL, VERTICAL, 42" OD X 7' LENGTH, MOC SA-240 316 , 100 psig & full vacuum @ 400 DEG F.

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX	NB 2522	2762
Construction date:	**Installation**	**Modification date(s):**
2013	MARCH 2014	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
560 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batth)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	NA	varies
Particulate Matter (PM_{10})	NA	varies
Total Particulate Matter (TSP)	NA	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batth)	TPY
THAP	NA	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
10CX	Step II Reactor; Condensers (3-10CD1), (3-10CD2); Industrial hygiene vent for Step II Reactor	None-Vents via 10CE and 10IE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
West Hals Step 2 Reactor, Vertical Vessel, 5,000 gals, Inconel 600, Design Pressure SHELL MAWP 100psi to -15psi @ 600'F JACKET MAWP 180/-15 PSI @ 600'F

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 1373	1455
Construction date:	**Installation date:**	**Modification date(s):**
---	MARCH 1998	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.01	varies
Particulate Matter (PM_{10})	0.01	varies
Total Particulate Matter (TSP)	0.02	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	33.86	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	32.75	varies
Formaldehyde	0.014	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
10IX	Splitter Bowl	None – Vents via 10CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Overheads Decanter Step 2 Reactor 2-10K3, Horizontal Vessel, 625 gals, 304ss, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOUR CORP.	NB 1375	1448
Construction date:	**Installation date:**	**Modification date(s):**
---	MARCH 1998	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
625 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.77	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.77	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
10PX	Melt Tank	None- Vents to 10PE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
UV 3346 Melt Tank, Vertical Vessel, 1,500 gals, Inconel 600, Design Pressure 75psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX CORPORATION	NB 295	386
Construction date:	**Installation date:**	**Modification date(s):**
---	September 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,500 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.31	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
10RX	Electric Oil Heater with Hot Oil Surge Tank	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
125 KW HEATER TUBE TYPE
MAWP 150 PSI @ 750'F MAWT 20'F @ 150 PSI

Manufacturer:	**Model number:**	**Serial number:**
CHROMALOX	TMOL-36125E3XX480V3PH	20216
Construction date:	**Installation date:**	**Modification date(s):**
---	August 1996	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
125 KW

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
10SX	Product Bin	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Finished Product Bin, 1-10BN1, 316SS 72" ID X 30" STRAIGHT SIDE W/ 45 DEGREE TOROCONICAL BOTTOM HEAD DESIGNED FOR 12 PSIG TESTED AT 19 PSIG

Manufacturer:	**Model number:**	**Serial number:**
Four Corp.	SA240-316L	92A0284
Construction date:	**Installation date:**	**Modification date(s):**
---	November 1992	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
72" ID X 30" STRAIGHT SIDE

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
10TX	SCREENER, 1-10SCR1	08RC-Vents via 08RE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
UV 3346 Finished Product Screener

Manufacturer:	**Model number:**	**Serial number:**
ROTEX INC	3242A-SS/SS	R040392
Construction date:	**Installation date:**	**Modification date(s):**
---	November 1992	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
N/A

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
11AX	Step II Reactor; Condensers (3-12CD1), (3-12CD2); Industrial hygiene vent for Step II Reactor	None-Vents via 11AE and 12DE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Step 2 Reactor, Vertical Vessel, Inconel 600, Design Pressure SHELL MAWP 100psi to -15psi @ 600'F JACKET MAWP 180/-15 PSI @ 600'F

Manufacturer:	**Model number:**	**Serial number:**
ENERFAB	NB 2339	101001-1
Construction date:	**Installation date:**	**Modification date(s):**
2005	SEPTEMBER 2011	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.01	varies
Particulate Matter (PM_{10})	0.01	varies
Total Particulate Matter (TSP)	0.021	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	32.41	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	30.70	varies
Formaldehyde	<0.01	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
12CX	Splitter Bowl	None – No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Decanter Step 2 Reactor 2-11K1, Horizontal Vessel, 625 gals, 304ss, Design Pressure 100psi AND FULL VACUUM, 600 DEG F.

Manufacturer:	**Model number:**	**Serial number:**
FOUR CORP.	NB 2338	2547
Construction date:	**Installation date:**	**Modification date(s):**
2011	JUNE 2011	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
625 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
12LX	Centrifuge Feed Tank with Condenser (3-13CD1); Industrial hygiene vent on Centrifuge Feed Tank	18VC-Vents via 12CE or 12DE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Crystallization and Isolation Reactor, Vertical Vessel, 3,000 gals, Inconel 600, Design Pressure 160psi to -15psi @ 400°F
Jacket 180psi @ 600°F

Manufacturer:	**Model number:**	**Serial number:**
BRIGHTON CORPORATION	NB 1176	A-1172
Construction date:	**Installation**	**Modification date(s):**
---	November 1965	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.47	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.47	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13BY	Condensate Receiver	None- Vents to 13GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vacuum Tumble Dryer Condensate Receiver, VERTICAL VESSEL , 22" DIA, 5' STRAIGHT SIDE, 200 GALLON CAPACITY, CARBON STEEL

Manufacturer:	**Model number:**	**Serial number:**
PATTERSON KELLY/WINTEK	N/A	960307
Construction date:	**Installation**	**Modification date(s):**
---	MARCH 1996	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
200 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.16	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.08	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13GX	Vacuum Pump	None-Vents via 14GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VACUUM PUMP 1.5 x 1.5, MAX. WORK PRESS. 100 PSIG AT 250 DEG. CENT. F.

Manufacturer:	**Model number:**	**Serial number:**
Frickless Pumps	Deanline	---
Construction date:	**Installation:**	**Modification date(s):**
---	March 1997	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13HX	Centrifuge	None- Vents to 13HE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
CENTRIFUGE 48" X 30" PERFORATED BASKET 316 SS , 900 RPM

Manufacturer:	**Model number:**	**Serial number:**
AMETEK,INC. C/0 BAKER PROCESS CO.	TC-462	ZT40114
Construction date:	**Installation**	**Modification date(s):**
---	JULY 1964	July 2007

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
Size 48'' x 30'' 85 LB/CU FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.17	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.17	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13HY	Wet Bin	13JC; no direct vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
LIVE BOTTOM BIN W/220 CU FT CAP. 304 SS W/3 HP MOTOR/VIBRATOR, 1800 RPM, 230/460 VOLTS

Manufacturer:	**Model number:**	**Serial number:**
METALFAB INC.	PB7-220 POSIBIN	396022
Construction date:	**Installation**	**Modification date(s):**
---	APRIL 1996	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,640 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13JX	Dryer and Condenser (1-13CD1), IH Vent off Dryer	None-Vents via 13JE and 13GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vacuum Tumble Dryer, Vapor Condenser, ¾" SS Tubes

Manufacturer:	**Model number:**	**Serial number:**
Patterson Kelly/Industrial Process Equipment Corp.	NB 1717-1718	604-2011-1-2
Construction date:	**Installation**	**Modification date(s):**
---	November 1996	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
150 SQ FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	2.29	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	2.29	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. MM/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13KX	Dry Bin	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
LIVE BOTTOM BIN W/184 CU FT CAP. 304 SS W/3 HP MOTOR/VIBRATOR, 1800 RPM, 230/460 VOLTS

Manufacturer:	**Model number:**	**Serial number:**
METALFAB INC.	PB7 POSIBIB	396021
Construction date:	**Installation**	**Modification date(s):**
---	MARCH 1996	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,370 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13LX	SCREENER, 1-13SCR1	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
ROTEX SCREENER FOR REMOVING OVERSIZED MATERIAL, 304 SS, 20 MESH

Manufacturer:	**Model number:**	**Serial number:**
ROTEX INC	3 201A SS/SS	R196102A
Construction date:	**Installation**	**Modification date(s):**
---	MAY 1995	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2 HP, 1800 RPM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13MX	82-1-13D1 VACUUM TUMBLE DRYER	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
9" DIA SCREW X 10'11" CL TO CL, 304 S.S. SPLIT TUBULAR HOUSING INCLINED SCREW CONVEYOR

Manufacturer:	**Model number:**	**Serial number:**
GOODMAN	P139-96C	C.820184
Construction date:	**Installation**	**Modification date(s):**
---	MAY 1995	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
150 CU FT (Working) 244 CU FT (Total)

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
13NX	Bagger	13JC-Vents via 13JE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Used to bag final dry product.

Manufacturer:	**Model number:**	**Serial number:**
Unknown	---	---
Construction date:	**Installation**	**Modification date(s):**
---	MAY 1995	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
Unknown

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

YES Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? _X_ Yes ___ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
14CX	Wash Tank	None – Vents via 14CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Methanol Wash Tank , Vertical Vessel, 475 gals, 304ss, Design Pressure 44psi

Manufacturer:	**Model number:**	**Serial number:**
LETCO	NB 1006	2992-01
Construction date:	**Installation**	**Modification date(s):**
---	JUNE 1996	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
475 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.36	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.36	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
14FX	Condensate Receiver, Reactor and Condensers (3-14CD2 & 3-14CD4); Industrial hygiene vent on Reactor	None-Vents via 14BE and 14EE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Reaction Reactor, Vertical Vessel, 3,000 gals, Inconel 600, Design Pressure
Vessel Pressure Rating 160psi to -15psi @ 400°F
Jacket Pressure Rating 203psi @ 600°F

Manufacturer:	**Model number:**	**Serial number:**
BRIGHTON CORPORATION	NB 2689	A8049-2
Construction date:	**Installation**	**Modification date(s):**
---	December 1970	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.06	varies
Particulate Matter (PM_{10})	0.06	varies
Total Particulate Matter (TSP)	0.12	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	14.7	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	14.7	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
14GY	Condensate Receiver and Condenser (1-14CD1)	None-Vents via 14GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
1790 Vacuum Tumble Dryer Condensate Receiver, Horizontal Vessel, 200 gals, Carbon Steel, Design Pressure 150psi

Manufacturer:	**Model number:**	**Serial number:**
PATTERSON KELLY/WINTEK	---	960306
Construction date:	**Installation**	**Modification date(s):**
---	DECEMBER 1997	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
200 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.16	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.08	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
14HX	Reactor and Condensers (3-14CD1 & 3-14CD3)	None-Vents via 14DE and 14EE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 3,000 gals, Inconel 600, Design Pressure 160psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
BRIGHTON CORPORATION	NB 1321	A-1633
Construction date:	**Installation**	**Modification date(s):**
---	March 1966	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.11	varies
Particulate Matter (PM_{10})	0.11	varies
Total Particulate Matter (TSP)	0.23	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.96	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.96	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
14JX	Sparkler Filter	None-Vents via 15EE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Used to separate solids from liquids from bottoms out of Reactor 14FX.

Manufacturer:	**Model number:**	**Serial number:**
Sparkler Filter Inc.	33-S-11	20962
Construction date:	**Installation**	**Modification date(s):**
---	March 2005	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3.87 cu ft

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	0	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15BX	Vacuum Dryer (1-15D1); Industrial hygiene vent on Dryer	13JC –Vents via 14GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
DRYER, 1-15D1 WORKING CAPACITY TWIN SHELL VACUUM TUMBLE DRYER (JACKET 285 GRADE C.S./SHELL S.S.)

Manufacturer:	**Model number:**	**Serial number:**
HARSCO / PATTERSON KELLEY COMPANY	NB 53396	276704
Construction date:	**Installation:**	**Modification date(s):**
---	1986	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,316 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	2.29	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	2.29	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15CX	Vacuum Pump (1-14P1)	None-Vents via 14GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VACUUM PUMP for Vacuum Dryer (1-15D1).

Manufacturer:	**Model number:**	**Serial number:**
BUFLOVAK LLC/ PATTERSON KELLEY COMPANY	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	April 1987	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
Full Vacuum

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15EX	Centrifuge #7 (3-15W1)	None-Vents to 15EE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
#7 Centrifuge, Horizontal Basket, Size 48'' x 24'', 316 SS, 1150 RPM

Manufacturer:	**Model number:**	**Serial number:**
SANBORN ASSOCIATES	TA-14320	MC 86-361
Construction date:	**Installation:**	**Modification date(s):**
---	February 1963	PRESSURE TIGHT LID, BOTTOM BOOT - JAN 2008

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
Size 48'' x 24'' Max allowable bulk density 95 LB/CU FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.17	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.17	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15EY	WET BIN	13JC; vents to 13JE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
WET BIN, 2-15BN1 6' DIA X 60" STRAIGHT SIDE WITH 60DEG SLOPING CONE TO 4' FLANGED OUTLET 3/16" THICK 304SS PLATE, 3 PSIG INTERNAL PRESS.

Manufacturer:	**Model number:**	**Serial number:**
VIBRA SCREW INC	---	861581
Construction date:	**Installation:**	**Modification date(s):**
---	April 1987	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
50 LB/CUFT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15FX	Wash Tank	None-Vents via 15FE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Chilled Methanol Tank - Number 7 Centrifuge, Vertical Tank, 500 gals, 316ss, Design Pressure 10psi

Manufacturer:	**Model number:**	**Serial number:**
VALLEY STEEL COMPANY	---	86-1017
Construction date:	**Installation:**	**Modification date(s):**
---	June 1987	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
500 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.36	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.36	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15NX	A-1846 Storage Tank (Product Accumulation Tank)	None-Vents via 15NE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
A 1846 Head Tank, Horizontal Vessel, 4,000 gals, Glass Lined, 30psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 5042	34440
Construction date:	**Installation:**	**Modification date(s):**
---	1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.91	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.91	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15PX	Dry Bin	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
LIVE BOTTOM BIN W/154 CU. FT. CAP. 304 SS

Manufacturer:	**Model number:**	**Serial number:**
METALFAB INC.	PB6-125 POSIBIN	595024
Construction date:	**Installation:**	**Modification date(s):**
---	MAY 1995	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1152 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
15QX	Screener	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VIBRATOR SCREENER
20 AND 6 MESH SCREENS

Manufacturer:	**Model number:**	**Serial number:**
SWECO INC.	QC60S888	694313
Construction date:	**Installation:**	**Modification date(s):**
---	AUGUST 1998	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
7500LB/HR

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
16JX	Reactor; TLC Mix Tank; Industrial hygiene vent on Split Recycle	None-Vents via 16JE and18JE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Split Recycle Tank, Vertical Vessel, 750 gals, Glass Lined, Design Pressure 100psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 346	12490
Construction date:	**Installation:**	**Modification date(s):**
---	August 1975	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
750 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.36	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.36	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
16UX	Reactor with Condenser (3-16CD1); Industrial hygiene vent on	None-Vents via 16CE and 16QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 3,000 gal, Design Pressure 160psi to -15psi @ 400°F
3000 GAL JACKETED
84inch OD x 105inch
Jacket Pressure Rating 203psi @ 600°F

Manufacturer:	**Model number:**	**Serial number:**
BRIGHTON CORPORATION	NB 2688	A8049-1
Construction date:	**Installation:**	**Modification date(s):**
---	December 1970	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.11	varies
Particulate Matter (PM_{10})	0.11	varies
Total Particulate Matter (TSP)	0.23	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.96	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.96	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
16WX	Vacuum Strip Crystallizer with Condenser (3-16CD2); Industrial hygiene vent on Reactor	None-Vents via 16BE and 16QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vacuum Strip and Crystallization Reactor, Vertical Vessel, 2,000 gals, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 2969	32254
Construction date:	**Installation:**	**Modification date(s):**
---	May 1983	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	11.69	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	11.69	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
16YX	CONVEYOR	None; no direct vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
ROTATING FEED SCREW CONVEYOR 16' 2" LONG X 9" DIAM, 8" INLET & 8" OUTLET. 304 SS,65 & 32.5 RPM

Manufacturer:	**Model number:**	**Serial number:**
BONAR INC. PACKAGING MACH. SYS	FILE NO. 41665	C2799 REV B
Construction date:	**Installation:**	**Modification date(s):**
---	1993	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
170 CU FT/HR AT 45LB/CU FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.5, 4.2.1, M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
16ZX	Bagger	13JC-Vents via 13JE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Used to bag final dry product.

Manufacturer:	**Model number:**	**Serial number:**
Unknown	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	1993	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
Unknown

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
17AX	Methanol Head Tank	None-Vents via 17AE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, 154.4 CU FT, 316SS, Design Pressure 0 psig

Manufacturer:	**Model number:**	**Serial number:**
HUTTON FAB. & MFG. CORPORATION	---	S0 6731
Construction date:	**Installation:**	**Modification date(s):**
---	March 1983	8/18/2008 - FLAT TOP CUT OUT/DISHED TOP INSTALL

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,152 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.95	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.95	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
17GX	Split Tank	17VC-Vents via 17PE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Caustic Hold Tank, Vertical Vessel, 2,000 gals, Glass Lined, Design Pressure: 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 1057	30222
Construction date:	**Installation:**	**Modification date(s):**
---	June 1977	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.36	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.36	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
17JX	Mix Tank	17VC-Vents via 17PE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Solvent Hold Tank, Vertical Vessel, 1,000 gals, 316ss, Design Pressure 50psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
BRIGHTON CORPORATION	NB 2404	A-7248
Construction date:	**Installation:**	**Modification date(s):**
---	February 1970	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.26	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.26	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
17PX	Condensate Receiver and Condensers (3-16CD3 & 3-16CD4); Industrial hygiene vent on Condensate Receiver	17VC-Vents via 17PE, 17QE and 18JE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
3-16CD3, 3-16CD4, HEAT EXCHANGER, GAS COOLER. SHELL, MAWP -15 & 138 PSIG. @ 248'F TUBES, MAWP -15 & 92 PSIG. @ 248'F

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS Industrial Piping Inc.	NB 3502 NB 914	98-345 W-6018B
Construction date:	**Installation:**	**Modification date(s):**
---	1990	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3-16CD4-- 4GPM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.74	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.74	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
17QX	Vacuum Pump	None-Vents via 17PE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VACUUM PUMP for Dryer (1-21D1).

Manufacturer:	**Model number:**	**Serial number:**
KOMLINE SANDERSON	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	APRIL 1977	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
FULL VACUUM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
18SX	Centrifuge Tank with Condenser (3-18CD1); Hold Tank; Industrial hygiene vent on Hold Tank; Industrial vent on Centrifuge Tank	18VC-Vents via 18ME and 18SE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 3,000 gals, Inconel 600, Design Pressure 100psi to -15psi
MAWP INTERNAL: 101.5/-15 PSIG AT 600 DEG F.
MAWP JACKET - 180/-15 PSIG AT 600 DEG F.
MDMT 0° @ 180psi/-15 psi

Manufacturer:	**Model number:**	**Serial number:**
ENERFAB INC.	NB 2333	100977-1
Construction date:	**Installation:**	**Modification date(s):**
---	October 2006	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	2.60	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	2.60	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
19AX	Catalyst A Process Tank	None – No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
PLASTIC TANK

Manufacturer:	**Model number:**	**Serial number:**
---	---	---
Construction date:	**Installation:**	**Modification date(s):**
2012	2012	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
130 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20BX	Condensate receiver tank and Condenser (2-21CD1)	None-Vents via 22BE and 22CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
1-20T1, Vertical Vessel,150gals, 304ss, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
VALLEY STEEL COMPANY	NB 59	88-0311
Construction date:	**Installation:**	**Modification date(s):**
---	June 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
150 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.2	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.2	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20CX	Sparkler Filter (3-20SF1)	None - No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Used to separate solids from liquids from bottoms out of Reactor 20NX.

Manufacturer:	**Model number:**	**Serial number:**
Sparkler Filter Inc.	33-D-12	22998
Construction date:	**Installation**	**Modification date(s):**
1992	September 1992	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
10.0 cu ft & 67.3 sq ft

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20EX	Condensate receiver tank	None-Vents via 20DE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
TANK, VERTICAL, CYLINDRICAL, 304 SS

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK	--	--
Construction date:	**Installation:**	**Modification date(s):**
---	April 1986	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
87.1 CU FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.86	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.22	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20FX	Hot Well & Vacuum Jet	None-Vents via 20DE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Hot Well (1-20HW1) / VACUUM JET (3-19VJ1)

Manufacturer:	**Model number:**	**Serial number:**
HEMMINGER CO.	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	March 1975	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
100 Gal

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 20KX	**Emission unit name:** Industrial hygiene hood over Centrifuge Tank (2-19K1); Centrifuge Feed Tank; Drumming Tank	**List any control devices associated with this emission unit:** 20KC-Vents via 21DE and 24NE
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Vertical Vessel, 2000 gals, Inconel 600, Design Pressure 100psi		
Manufacturer: BRIGHTON CORPORATION	**Model number:** NB 672	**Serial number:** SN A65
Construction date: ---	**Installation:** January 1965	**Modification date(s):** ---
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2,000 GALS		
Maximum Hourly Throughput: VARIES	**Maximum Annual Throughput:** VARIES	**Maximum Operating Schedule:** 8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable
List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each. Not Applicable	

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	11.50	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	11.50	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20LX	Splitter Bowl	None – No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Splitter Bowl, 304ss, Design Pressure 100psi to -15psi @ 370°F

Manufacturer:	**Model number:**	**Serial number:**
Sistersville Tank	---	10-253
Construction date:	**Installation date:**	**Modification date(s):**
2010	September 2010	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
29 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20NX	Reactor (2-19K2)	None-Vents via 20AE and 21DE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, Glass Lined

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	CSA 2000	71049
Construction date:	**Installation:**	**Modification date(s):**
2011	August 2008	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.01	varies
Particulate Matter (PM_{10})	0.01	varies
Total Particulate Matter (TSP)	0.02	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	4.61	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	4.60	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
20PX	TANK, 1-20T1	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel,150 gals, 304ss, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
VALLEY STEEL COMPANY	NB 59	88-0311
Construction date:	**Installation:**	**Modification date(s):**
---	June 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
150 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
021X	Morpholine Storage Tank	None- Vents via 021E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Tank, 15,000 gals, Carbon Steel, Design Pressure 15psi

Manufacturer:	**Model number:**	**Serial number:**
MODERN WELDING	NB 245	3175
Construction date:	**Installation date:**	**Modification date(s):**
---	January 2007	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
15,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	10.68	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
21AX	Centrifuge	None- Vents via 21 AE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
#4 Centrifuge, Horizontal Basket, Size 48 x 30, Sharples

Manufacturer:	**Model number:**	**Serial number:**
SHARPLES	T-1600	9626
Construction date:	**Installation:**	**Modification date(s):**
---	August 1967	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2100 RPM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	21.46	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	21.46	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
21AY	Wet Bin	22QC; vents to 22QE.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
#4 WET BIN W/FLEXIBLE JOINT
M.O.C. - SA240 - 304L, SS
THICKNESS - SHELL - .1875" (3/16"), BOTTOM HD. .1875" (3/16")
MAWP - 5 PSI @ 300 DEG F.

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS INC	NB 3927	07-414
Construction date:	**Installation:**	**Modification date(s):**
---	April 2008	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
SIZE - 2' 10-1/2" I.D., 8' 7-1/2" L.

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.75	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.72	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
21DX	Strip Kettle (2-20K1)	None-Vents via 21DE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Reactor 2-20K1, Vertical Vessel, INCONNEL 600, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX	NB 1867	2408
Construction date:	**Installation:**	**Modification date(s):**
2003	NOVEMBER 2003	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.20	varies
Particulate Matter (PM_{10})	0.20	varies
Total Particulate Matter (TSP)	0.37	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	11.65	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	8.99	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
21WX	UV-1164 Packer, Drumming Station, Mill and Bagger	22QC-Vents via 22QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Used to bag final dry product.

Manufacturer:	**Model number:**	**Serial number:**
ARCOPAK INC	IBC	C-3279
Construction date:	**Installation:**	**Modification date(s):**
---	Unknown	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 8 bags/minute

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.02	varies
Particulate Matter (PM_{10})	0.02	varies
Total Particulate Matter (TSP)	0.05	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.97	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.96	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 22BX	**Emission unit name:** Dryer with Condensate Receiver (20BX) and Condenser (2-21CD1); Industrial hygiene vent on Dryer; Industrial vent on blender	**List any control devices associated with this emission unit:** 22QC-Vents via 22QE, 22BE, and 22CE
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Condensate Receiver, Vertical Vessel, Carbon Steel, Design Pressure 75psi to -15psi		
Manufacturer: KOMLINE SANDERSON	**Model number:** NB 122	**Serial number:** 1-399
Construction date: ---	**Installation:** February 1969	**Modification date(s):** --
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 150 GALS		
Maximum Hourly Throughput: VARIES	**Maximum Annual Throughput:** VARIES	**Maximum Operating Schedule:** 8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes __X__ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.29	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.29	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
22CX	Condensate Receiver	None- Vents via 22DE and 22CE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, Carbon Steel, Design Pressure 15psi

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 3193	93-212
Construction date:	**Installation:**	**Modification date(s):**
---	1993	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
69 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.2	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.2	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
22DX	Tumble Dryer with Condenser (2-22CD1); Industrial hygiene vent on Dryer; Industrial hygiene vent on Blender	22QC-Vents via 22DE, 22CE, and 22 QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
DRYER 50 CU FT WORK CAPACITY DOUBLE CONE VACUUM TUMBLE DRYER
INSIDE: 316SS SHELL: 304 SS

Manufacturer:	**Model number:**	**Serial number:**
HARSCO / PATTERSON KELLEY COMPANY	SP-2-B	165842
Construction date:	**Installation:**	**Modification date(s):**
---	DECEMBER 1963	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
50 CU FT AND 65 LB/CU FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.29	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.29	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.
.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
22GX	Tray dryer; Industrial hygiene vent on Tray Dryer	22QC-Vents via 22QE, 22GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Four Truck Dryer, 3-22D1 CONSISTS OF DRYER CHAMBER, BLOWER, MOTOR, DUCTS, HEAT

Manufacturer:	**Model number:**	**Serial number:**
Allied Steel Products	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	October 1950	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
5HP, 1740 RPM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.08	varies
Particulate Matter (PM_{10})	0.08	varies
Total Particulate Matter (TSP)	0.16	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	96.44	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	96.44	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
22KX	Splitter Bowl	None – Vents via 20BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Overheads Decanter, Reactor 2-20K1, Vertical Vessel, 304ss, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
Sistersville Tank	NB 3975	10-253
Construction date:	**Installation date:**	**Modification date(s):**
2010	September 2010	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
29 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	NA	NA
Particulate Matter (PM_{10})	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
22MX	Tank	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
SOLVENT TANK, Vertical Vessel, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 1560	30763
Construction date:	**Installation:**	**Modification date(s):**
---	September 1979	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.35	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.35	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
22PX	Vacuum Pump (2-22-VP1)	None-Vents via 22BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Dry Screw Vacuum Pump

Manufacturer:	**Model number:**	**Serial number:**
ESTABROOK CORP.	SDV430	131680609
Construction date:	**Installation:**	**Modification date(s):**
2006	January 2007	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
254 cfm at 3600 rpm

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	NA	NA
Particulate Matter (PM_{10})	NA	NA
Total Particulate Matter (TSP)	NA	NA
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
23AX	Industrial hygiene hood over UV-1164 Packer & Drumming Station; PRODUCT MILL ON 1-21D1; Industrial hygiene hood on Packer	22QC-Vents via 22QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
FITZMILL, MAKE OF MOTOR: RELIANCE 10 HP, 1755 RPM
VOLTS 230/460
AMPS 23.8/11.9, MODEL P21G05468, FRAME 215T MOTOR TYPE - TEFC

Manufacturer:	**Model number:**	**Serial number:**
FITZPATRICK COMPANY	D-VFS-DAS06-SS	11227
Construction date:	**Installation:**	**Modification date(s):**
---	JULY 1998	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
6000 RPM, 1CU/FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.02	varies
Particulate Matter (PM_{10})	0.02	varies
Total Particulate Matter (TSP)	0.05	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.97	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.96	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
23LX	MixTank (3-23K2)	None- Vents via 23LE and 23ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, Stainless Steel, Design Pressure 25 psi

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX	NB 1035	1093
Construction date:	**Installation:**	**Modification date(s):**
1994	December 1994	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1250 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	Negligible	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
23PX	TANK	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
SOLUTION TANK ,Vertical Vessel, 750 gals, Glass Lined, Design Pressure 55psi

Manufacturer:	**Model number:**	**Serial number:**
PFAUDLER CO. c/o DXP-RA MUELLER	NB 47696	P294-0256
Construction date:	**Installation:**	**Modification date(s):**
---	September 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
750 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.93	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.93	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPH	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
23SX	Reactor 2-23K1	None-Vents via 25JE and 23FE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, Glass Lined

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	CSA 4000	68019
Construction date:	**Installation:**	**Modification date(s):**
2007	May 2007	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	3.87	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	3.86	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24BX	Methanol Tank; Wash Tank	None- Vents via 24BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, 62.8 CU FT, 304ss, Design Pressure 0 psig

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	---	69-140
Construction date:	**Installation:**	**Modification date(s):**
---	July 1969	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
470 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.28	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.28	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24CX	Vac-Convey Unit	None- Vents via 25TE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VACUUM CONVEY UNIT, 3-24VC1, 304 SS

Manufacturer:	**Model number:**	**Serial number:**
VAC-U-MAX	HFODA-XFSV-8DSS	---
Construction date:	**Installation:**	**Modification date(s):**
---	June 1969	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 LB/HR

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24HX	TDI Head Tank	None- Vents via 24HE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, 57.7 CU FT, Carbon Steel, Design Pressure 15psi

Manufacturer:	**Model number:**	**Serial number:**
CAPITAL CITY	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	March 1977	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
431 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.03	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.03	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24JX	Reactor (24QX) to Condenser (3-25CD1) to Splitter Bowl	None-Vents via 24GE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Splitter Bowl - CMU Reactor 24K2, TANK, 2-24T1

Manufacturer:	**Model number:**	**Serial number:**
POWER MAINTENANCE, INC.	---	NOL#69-216
Construction date:	**Installation:**	**Modification date(s):**
---	August 2002	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,800 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.16	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.12	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24MX	Industrial hygiene hood over UV-1164 Reactor (2-24K2), Strip Kettle (2-24K1), Sparkler Filter (3-25SF1), and Drumming Station (DRUM)	None-Vents via 24NE and 24FE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Centrifuge Feed Reactor, 2ND FLOOR, BAY Vertical Vessel, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 2980	32263
Construction date:	**Installation:**	**Modification date(s):**
---	May 1989	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.11	varies
Particulate Matter (PM_{10})	0.11	varies
Total Particulate Matter (TSP)	0.22	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	35.98	varies
Hazardous Air Pollutants	**Potential Emissions (After Control)**	
	PPB (lb/batch)	TPY
THAP	35.98	varies
Regulated Pollutants other than Criteria and HAP	**Potential Emissions (After Control)**	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number: 24NX	**Emission unit name:** Condensate Receiver from Condenser (3-25CD2) with vacuum jet (LR-24VJ1)(24PX)	**List any control devices associated with this emission unit:** None-Vents via 24ME and 24PE
Provide a description of the emission unit (type, method of operation, design parameters, etc.): Overheads Receiver, Vessel, 316ss, Design Pressure 100psi to -15psi		
Manufacturer: SISTERSVILLE TANK WORKS	**Model number:** NB 3752	**Serial number:** 03-127 B
Construction date: ---	**Installation:** March 2003	**Modification date(s):** --
Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1,000 GALS		
Maximum Hourly Throughput: VARIES	**Maximum Annual Throughput:** VARIES	**Maximum Operating Schedule:** 8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.52	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.52	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24PX	Vacuum Jets & Hot Well	None-Vents via 24PE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VACUUM JET ,RF-24VJ1

Manufacturer:	**Model number:**	**Serial number:**
SCHUTTE & KOERTING	T-2C, S-3C	C124215
Construction date:	**Installation:**	**Modification date(s):**
---	July 1998	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
110 LB STEAM

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24QX	Industrial hygiene hood on Reactor (2-24K2), Strip Kettle (2-24K1), Sparkler Filter (3-25SF1), and Drumming Station ; Reactor	None-Vents via 24FE and 24QE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Reactor 2-24K2, Vertical Vessel, Glass Lined, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH (USA) INC	NB 1273	2408
Construction date:	**Installation:**	**Modification date(s):**
---	May 2005	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
2,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.07	varies
Particulate Matter (PM_{10})	0.07	varies
Total Particulate Matter (TSP)	0.14	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	61.84	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	60.74	varies
Formaldehyde	0.076	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24RX	Condensate Receiver from Condenser (3-25CD1)	None-Vents via 24RE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Condensate Receiver, Vertical Vessel, 316ss, Design Pressure 100psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 3751	03-127 A
Construction date:	**Installation:**	**Modification date(s):**
---	March 2003	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
1,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.38	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.38	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__Yes__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24TX	Product drumming station (1-24D1)	None – Vents via 24FE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Industrial hygiene pickup associated with packing finished liquid products in containers.

Manufacturer:	**Model number:**	**Serial number:**
VARIES	VARIES	VARIES
Construction date:	**Installation date:**	**Modification date(s):**
---	VARIES	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
VARIES

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.04	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	0.04	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
24YX	Sparkler Filter (3-20SF1)	None-No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal plate. Used to separate solids from liquids from bottoms out of Reactor 21DX.
MAWP 60 PSI @ 350 DEG.F.

Manufacturer:	**Model number:**	**Serial number:**
Sparkler Filter Inc.	33-D-12	22998
Construction date:	**Installation**	**Modification date(s):**
---	September 1992	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3.87 cu ft

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
25BX	Fluid Bed Dryer	None-Vents via 25BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Dryer, Fluid Bed, Fitzpatrick MN FA-500

Manufacturer:	**Model number:**	**Serial number:**
FITZPATRICK COMPANY	FA-500	FA 509
Construction date:	**Installation:**	**Modification date(s):**
---	May 1969	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
850 LB

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.01	varies
Particulate Matter (PM_{10})	0.01	varies
Total Particulate Matter (TSP)	0.02	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	<0.01	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
25CX	Centrifuge	None-Vents via 25AE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Dryer, Fluid Bed, Fitzpatrick MN FA-500

Manufacturer:	**Model number:**	**Serial number:**
FITZPATRICK COMPANY	FA-500	FA 509
Construction date:	**Installation:**	**Modification date(s):**
---	MAY 1969	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
34 LB/CU FT MAX CAP 950 LB

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	21.46	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	21.46	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
25EX	Wet Bin	None-Vents via 25AE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
2-25BN1 , WET BIN 5' Dia. X 5' Straight shell Design pressure: atmospheric, Design temperature: ambient, 316SS

Manufacturer:	**Model number:**	**Serial number:**
ALPHA TANK AND METALS MFG CO	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	May 1969	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
100 CU FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.75	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.72	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
25HX	MIBK STORAGE TANK	23HC – vents to 23NE or 251E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
TANK ,Vertical Vessel, Glass Lined, Design Pressure 45psi and full vacuum at 400 deg F

Manufacturer:	**Model number:**	**Serial number:**
TTCON-ENQUIP	NB 95	5480
Construction date:	**Installation:**	**Modification date(s):**
---	December 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
15,0000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	9.90	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	9.90	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPH	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
25TX	Dry Bin	None - no vent.

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Dry Bin, 2-24BN1 304SS

Manufacturer:	**Model number:**	**Serial number:**
Prater Industrial Co.	12TWI-160	14261-14264
Construction date:	**Installation:**	**Modification date(s):**
---	June 1969	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
10GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.02	varies
Particulate Matter (PM_{10})	0.02	varies
Total Particulate Matter (TSP)	0.02	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
26FX	Agitated Filter Dryer (2-26F1)	None – vents to 22BE

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
FILTER DRYER, 6 SQ. METER, Automated Side Discharge System, Heated S-Blade Type Agitator, Mechanical Seal and Bellows, Fabricated in 316L Stainless Steel.

Manufacturer:	**Model number:**	**Serial number:**
DEDIETRICH PROCESS SYSTEMS	RGFD 6.0	HU1334DD
Construction date:	**Installation:**	**Modification date(s):**
2013	March 2014	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
16 SQ METER

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	11.30	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	11.30	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
26HX	PACKAGING UNIT	26GE-Vents via 26GX

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Bulk Bag Filler System, PROVIDES METERED FLOW OF MATERIAL TO DOWNSTREAM PROCESS EQUIPMENT UNDER AIRLOCK CONDITIONS.

Manufacturer:	**Model number:**	**Serial number:**
FLEXICON CORPORATION	RVD-S10E-X	--
Construction date:	**Installation:**	**Modification date(s):**
2013	MARCH 2014	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4 CFM @ 15 RPM & 75% FILL RATE

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.14	varies
Particulate Matter (PM_{10})	0.14	varies
Total Particulate Matter (TSP)	0.14	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	NA	NA
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	NA	NA
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
041X	36% Hydrochloric Acid Bulk Storage Tanks (S-4T1/5T1)	05VC, 041C, 041S Vents via 041E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Tank, Carbon Steel, Design Pressure 15psi

Manufacturer:	**Model number:**	**Serial number:**
MODERN WELDING	---	3175
Construction date:	**Installation date:**	**Modification date(s):**
---	1988	April 2001

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
20,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.02	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
051X	36% Hydrochloric Acid Bulk Storage Tanks (S-4T1/5T1)	05VC, 041C, 041S - Vents via 041E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
36% HCl Storage Tank West, Horizontal Tank, 18,560 gals, FRP, Design Pressure 0psi

Manufacturer:	**Model number:**	**Serial number:**
BITTNER Industries Inc.	---	T88-65
Construction date:	**Installation date:**	**Modification date(s):**
---	March 1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
18,560 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.02	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.02	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
063X	TBX Bulk Storage Tank	None – vents via 063E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, 14,400 gals, 304, Design Pressure 0psi

Manufacturer:	**Model number:**	**Serial number:**
Buffalo Tank Corp	---	---
Construction date:	**Installation date:**	**Modification date(s):**
---	May-87	Sep-05

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
14,400 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
074X	Intermediate Methanol Storage Tank	11VC-Vents to 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Tank, Carbon Steel, Design Pressure 2.5 psi

Manufacturer:	**Model number:**	**Serial number:**
MODERN WELDING	---	11658
Construction date:	**Installation date:**	**Modification date(s):**
---	November 1997	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
12,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.01	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.01	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
075X	Toluene Storage Tank	075C Vents to- 075E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, Carbon Steel, Design Pressure 14psi

Manufacturer:	**Model number:**	**Serial number:**
BUFFALO TANK CORP	---	R1202
Construction date:	**Installation date:**	**Modification date(s):**
---	May 1989	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
14,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	56.47	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	56.47	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
076X	Formic Acid Storage Tank	None-Vents to 076E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel, Glass Lined, Design Pressure 15psi

Manufacturer:	**Model number:**	**Serial number:**
R. A. MUELLER, INC.	---	R2610228
Construction date:	**Installation date:**	**Modification date(s):**
---	July 1961	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
10,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	4.01	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
102X	Mother Liquor Tank	10VC Vents via-11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, Carbon Steel, Design Pressure 5psi @ 650° F

Manufacturer:	**Model number:**	**Serial number:**
HAMILTON WELDING CO.	NB 5511	4043
Construction date:	**Installation date:**	**Modification date(s):**
---	April 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
23,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.03	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.03	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.

4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.

4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
103X	Mother Liquor Tank	10VC -Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
CARBON STEEL VERTICAL TANK W/ CONE BOTTOM WALLOW. 1/16" MAWP 5 PSIG. @ 650'F

Manufacturer:	**Model number:**	**Serial number:**
HAMILTON WELDING CO.	NB 5627	5108
Construction date:	**Installation date:**	**Modification date(s):**
---	March 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
23,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.45	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.45	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
111X	North West Mother Liquor Tank	10VC-Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, Carbon Steel, Design Pressure 5psi CONE BOTTOM W/LEGS

Manufacturer:	**Model number:**	**Serial number:**
HAMILTON WELDING CO.	NB 5522	4044
Construction date:	**Installation date:**	**Modification date(s):**
---	March 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
23,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.85	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.85	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
112X	South West Mother Liquor Tank	10VC-Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, Design Pressure 5psi CARBON STEEL W/CONE BOTTOM

Manufacturer:	**Model number:**	**Serial number:**
HAMILTON WELDING CO.	NB 5610	6007
Construction date:	**Installation date:**	**Modification date(s):**
---	March 1994	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
23,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.54	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.54	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
121A	Bulk Methanol Storage Tank	11VC-Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, Carbon Steel, Design Pressure 0 psig

Manufacturer:	**Model number:**	**Serial number:**
CAPITAL CITY	---	CCC1673-44918
Construction date:	**Installation**	**Modification date(s):**
---	January 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
40,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.03	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.03	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
141X	Batch Column Still Pot with heat exchanger (S-15EX1)	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Vessel, 316ss, Design Pressure 30psi to -15psi @ 500°F
72'' OD x 216'' side

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 1673	68-526
Construction date:	**Installation**	**Modification date(s):**
---	July 1969	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	10.64	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	10.64	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
142X	Batch Column with Condenser (S-14CD1)	None

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Distillation Column 30 inch x 444 inch, 316ss, Design Pressure 30 psi to -15 psi @ 400°F
Material 316SS

Manufacturer:	**Model number:**	**Serial number:**
STEEL PLATE FABRICATING	NB 318	122
Construction date:	**Installation**	**Modification date(s):**
---	July 1969	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
30" x 444"

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.13	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.13	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
144X	Mother Liquor Storage Tank	14VC –Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, 304ss, Design Pressure 0 psig

Manufacturer:	**Model number:**	**Serial number:**
LETCO	---	2818-01
Construction date:	**Installation**	**Modification date(s):**
---	October 1995	--

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
25,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.02	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.02	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
153X	Mother Liquor Storage Tank	14VC Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, 30,000gals, Carbon Steel, Design Pressure 14 psig

Manufacturer:	**Model number:**	**Serial number:**
BUFFALO TANK CORP	---	J4413
Construction date:	**Installation:**	**Modification date(s):**
---	1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
30,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.02	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.02	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
154X	Reflux Drum with Condenser (S-14CD1)	11MV –Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Vessel,17.2 cuft,SA-516, Design Pressure 50psi

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 2900	88-252
Construction date:	**Installation:**	**Modification date(s):**
---	November 1988	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
129 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.08	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.08	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
162X	Recovered Solvent Receiver	16VC-Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Vessel, Carbon Steel, Design Pressure 30psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 1674	68-527
Construction date:	**Installation:**	**Modification date(s):**
---	July 1969	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,500 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	8.02	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	8.02	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
163X	Wet Solvent Receiver	16VC-Vents via 11ME

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Vessel, Carbon Steel, Design Pressure 30psi to -15psi

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 1674	68-527
Construction date:	**Installation:**	**Modification date(s):**
---	July 1969	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
3,500 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.03	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.03	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

_YES___ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X_Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
173X	Hazardous Waste Tank (S-17T2) with Condenser (S-17EX1)	None-Vents via 173E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, Lined Carbon Steel, Design Pressure 5 psig

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 3134	91-287
Construction date:	**Installation:**	**Modification date(s):**
---	July 1991	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
14,340 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	4.06	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	4.06	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
184X	STORAGE TANK	None-Vents via 184E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Vessel, Carbon Steel, Design Pressure 150psi

Manufacturer:	**Model number:**	**Serial number:**
HEDGES WELSH WEIDNER COMPANY	---	D 19521
Construction date:	**Installation:**	**Modification date(s):**
---	July 1953	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
17,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	56.67	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	56.67	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
193X	Methanol Column w/Condenser (S-20CD1)	None-Vents via 193E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
TRAY DISTILLATION COLUMN, 24'' OD X 55' 6'', MAWP SHELL 75 PSI @ 240 DEG. F.

Manufacturer:	**Model number:**	**Serial number:**
VULVAN MANUFACTURING COMPANY	NB 2527	11011
Construction date:	**Installation:**	**Modification date(s):**
---	June 1969	INTERNAL BOTTOMS REPLACED IN 1997

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
527 SQ FT

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
203X	Reflux Drum	None-Vents via 193E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Methanol Receiver - Methanol Column, Vertical Vessel, 316ss, Design Pressure 75psi

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 3146	91-431
Construction date:	**Installation:**	**Modification date(s):**
---	1991	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
65 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
225X	BRINE MAKE-UP TANK	None-Vents via 225E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
VERTICAL VESSEL

Manufacturer:	**Model number:**	**Serial number:**
Valley Steel Co.	NB632	1999253
Construction date:	**Installation:**	**Modification date(s):**
---	September 2000	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
21,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
231X	Storage Tank	None-Vents via 231E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Tank, 1570 CU FT, Carbon Steel, Design Pressure 14psi

Manufacturer:	**Model number:**	**Serial number:**
AM HARRIS COMPANY	---	0034
Construction date:	**Installation:**	**Modification date(s):**
---	August 1967	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
14,400 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	13.56	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	13.56	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
233X	Storage Tank (S-22T6)	None-Vents via 233E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Vessel, 11.2 CU FT, Carbon Steel, Design Pressure 15psi

Manufacturer:	**Model number:**	**Serial number:**
VALLEY STEEL COMPANY	NB 632	1999253
Construction date:	**Installation:**	**Modification date(s):**
---	July 2001	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
20,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
241X	Storage Tank	None-Vents via 241E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Tank, 7,500 gals, Carbon Steel , Design Pressure 14psi

Manufacturer:	**Model number:**	**Serial number:**
RICHMOND ENGINEERING CO	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	September 1967	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
9,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.43	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	0.43	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
243X	STORAGE TANK	None-Vents via 243E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Tank, Glass Lined, Design Pressure 0 psi

Manufacturer:	**Model number:**	**Serial number:**
PFAUDLER CO. c/o DXP-RA MUELLER	---	R262-0170
Construction date:	**Installation:**	**Modification date(s):**
---	October 1966	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
10,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	0.05	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
261X	STORAGE TANK	None - Vents via N261E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
TANK ,Vertical Vessel

Manufacturer:	**Model number:**	**Serial number:**
FOURINOX	---	R2592-1
Construction date:	**Installation:**	**Modification date(s):**
2013	JUNE 2013	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
18,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	---	---
Particulate Matter (PM_{10})	---	---
Total Particulate Matter (TSP)	---	---
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.50	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	1.50	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPH	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
271X	Brine Storage Tank	None-Vents via 271E

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Vertical Tank, 10,000 gals, Phenolic Lined CS, Design Pressure 0psi

Manufacturer:	**Model number:**	**Serial number:**
STACY MANUFACTURING COMPANY	---	---
Construction date:	**Installation:**	**Modification date(s):**
---	August 1969	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
10,000 gals

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	---	---
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	---	---
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
Drum, Drum08, Drum13, Drum22, Drum23, Drum24	Product drumming station	08RC, 13JC, 22QC, 23AC

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Industrial hygiene pickup associated with packing finished products in containers.

Manufacturer:	**Model number:**	**Serial number:**
VARIES	VARIES	VARIES
Construction date:	**Installation date:**	**Modification date(s):**
---	VARIES	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
VARIES

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/batch emissions below represent the highest current batch emission rate for each pollutant emitted from this Emission Unit. Batch emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	0.02	varies
Particulate Matter (PM_{10})	0.02	varies
Total Particulate Matter (TSP)	0.05	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	1.97	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
THAP	1.96	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPB (lb/batch)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.
2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.
3. Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.2, 4.1.5, 4.1.6, Appendix A; R13-2156U: 4.1.2, 4.1.7, 4.1.8, Appendix A; 45CSR§13-5.11.
4. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.
5. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.
2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.
3. M/T/R/R for Operational Limits (Control Devices) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.3, 4.4.1, 4.4.2; R13-2156U: 4.2.3, 4.4.2, 4.4.3.
4. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.
5. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).
6. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
S-15EX1	Batch Column Still Pot (S-14T1) with heat exchanger (S-15EX1)	None – No Direct Vent

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Horizontal Vessel, 316ss, Design Pressure 30psi to -15psi @ 500°F
72'' OD x 216'' side

Manufacturer:	**Model number:**	**Serial number:**
SISTERSVILLE TANK WORKS	NB 1673	68-526
Construction date:	**Installation**	**Modification date(s):**
---	July 1969	---

Design Capacity (examples: furnaces - tons/hr, tanks - gallons):
4,000 GALS

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
VARIES	VARIES	8,760 hr/yr

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? ___Yes _X_ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating: Not Applicable	**Type and Btu/hr rating of burners:** Not Applicable

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
Not Applicable

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Not Applicable			

Page _____ of _____

Emissions Data

[Note: The lb/month emissions below represent the current monthly emission rate for each pollutant emitted from this Emission Unit. Monthly emission rates may change in the future based upon new or revised batch product recipes.]

Criteria Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
Carbon Monoxide (CO)	NA	NA
Nitrogen Oxides (NO_X)	NA	NA
Lead (Pb)	NA	NA
Particulate Matter ($PM_{2.5}$)	<0.01	varies
Particulate Matter (PM_{10})	<0.01	varies
Total Particulate Matter (TSP)	<0.01	varies
Sulfur Dioxide (SO_2)	NA	NA
Volatile Organic Compounds (VOC)	10.64	varies
Hazardous Air Pollutants	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
THAP	10.64	varies
Regulated Pollutants other than Criteria and HAP	Potential Emissions (After Control)	
	PPM (lb/month)	TPY
None	---	---

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

EmissionMaster emission modeling

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

1. Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.1; R13-2156U: 4.1.1.

2. Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.4, 4.1.8, 4.1.9, 4.1.10, 4.1.11, 4.1.12, 4.1.13; R13-2156U: 4.1.6, 4.1.11, 4.1.12, 4.1.13, 4.1.14, 4.1.15, 4.1.16; 45CSR§7-3.1, 3.2, 4.1, 4.2, 9.1 & 10.3.

3. Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.7; R13-2156U: 4.1.9; 40 C.F.R. 63, Subpart FFFF.

4. Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.14; R13-2156U: 4.1.17; 45CSR§13-5.11.

__YES__ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

1. M/T/R/R for Emission Limits (Emissions Cap) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.3, 4.2.1, 4.4.4, 4.4.5, 4.5.1, 4.5.2; R13-2156U: 4.1.5, 4.2.1, 4.4.5, 4.4.6, 4.4.9, 4.5.1, 4.5.3; 45CSR§13-5.11.

2. M/T/R/R for Emission Limits (Rule 7 PM/Acid & Opacity) – R30-07300003-2010-MM09(Part 4 of 4): 4.1.15, 4.2.1, 4.2.2, 4.3.1, 4.3.2, 4.4.6, 4.4.11, 4.4.12; R13-2156U: 4.2.1, 4.2.2, 4.4.7; 45CSR§7-4.12, 8.1 & 8.2.

3. M/T/R/R for Emission Limits & Operational Limits (MON MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.2.4, 4.2.5, 4.2.6, 4.2.7, 4.4.10, 4.5.5; R13-2156U: 4.1.9, 4.4.8; 45CSR34; 40 C.F.R. 63, Subpart FFFF; 40 C.F.R. 63, Subparts A, F, G, H, SS, UU, WW, and GGG; 40 C.F.R. 65, Subpart F.

4. M/T/R/R for Emission Limits & Operational Limits (OLD MACT) – R30-07300003-2010-MM09(Part 4 of 4): 4.4.9; R13-2156U: 4.4.10; 45CSR34; 40 C.F.R. §§63.2343(a), 63.2390(a), 63.2390(d).

5. M/T/R/R for Operational Limits (Intermittent Use Equipment) – R30-07300003-2010-MM09(Part 4 of 4): 4.5.4; R13-2156U: 4.5.5; 45CSR§13-5.11.

Are you in compliance with all applicable requirements for this emission unit? __X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.