ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:** NA
14HX	2-14K1	

Provide a description of the emission unit (type, method of operation, design parameters, etc.):

Reactor (like-kind replacement for existing reactor), which utilizes existing Condensers (3- 14CD1 & 3-14CD3); no control device; vents via existing emission points 14DE and 14EE. Vertical Vessel, 4,000 gals, Hastelloy C-276,

Manufacturer:	**Model number:**	**Serial number:**
Fourinox	NB2558	
Construction date: **(MM/DD/YYYY)**	**Installation date:** **(MM/DD/YYYY)**	**Modification date(s):** **(MM/DD/YYYY)**
/ / 2016	/ / 2016	/ / ; / / / / ; / /

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

4,000 gals, Hastelloy C-276, Design Pressure 185psi to -15psi.

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
UV-2908: TOLUENE N-HEXADECANOL 2,6-DTBP SHELL ACID METHANE SULI	UV-2908: TOLUENE N-HEXADECANOL 2,6-DTBP SHELL ACID METHANE SL	8760

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

Does this emission unit combust fuel? ___Yes ___ No	**If yes, is it?** ___ Indirect Fired ___Direct Fired
Maximum design heat input and/or maximum horsepower rating:	**Type and Btu/hr rating of burners:**

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.

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

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)		
Nitrogen Oxides (NO_X)		
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})	0.24	
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	1.39	
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Toluene	1.39	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

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.).

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.

____ 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.)

MONITORING Cytec does not believe that any additional MRRT is needed beyond the existing R13-2156W permit terms. RECORDKEEPING REPORTING TESTING

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

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