Flying “W” Plastics, Inc.

Glenville, West Virginia

Plant ID No. 021-00007

Application for

Class II Administrative Update

May 2017

Prepared by:

HENTHORN Environmental Services

Post Office Box 599
St. Albans, WV 25177

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

☐ **CONSTRUCTION** ☐ **MODIFICATION** ☐ **RELOCATION**
☐ **CLASS I ADMINISTRATIVE UPDATE** ☐ **TEMPORARY**
☒ **CLASS II ADMINISTRATIVE UPDATE** ☐ **AFTER-THE-FACT**

PLEASE CHECK TYPE OF **45CSR30 (TITLE V)** REVISION (IF ANY):

☐ **ADMINISTRATIVE AMENDMENT** ☐ **MINOR MODIFICATION**
☐ **SIGNIFICANT MODIFICATION**

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS **ATTACHMENT S** TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant *(as registered with the WV Secretary of State's Office):*
Flying "W" Plastics, Inc.

2. Federal Employer ID No. ***(FEIN):***
5 5 0 7 1 3 7 8 5

3. Name of facility *(if different from above):*

4. The applicant is the:
☐ **OWNER** ☐ **OPERATOR** ☒ **BOTH**

5A. Applicant's mailing address:
Post Office Box 759
Glenville, West Virginia 26351

5B. Facility's present physical address:
487 Vanhorn Drive
Glenville, West Virginia 26351

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? ☒ **YES** ☐ **NO**

- If **YES,** provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**
- If **NO,** provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

7. If applicant is a subsidiary corporation, please provide the name of parent corporation:

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site?* ☒ **YES** ☐ **NO**

- If **YES,** please explain: Applicant owns site.

- If **NO,** you are not eligible for a permit for this source.

9. Type of plant or facility (stationary source) to be **constructed, modified, relocated, administratively updated** or **temporarily permitted** (e.g., coal preparation plant, primary crusher, etc.): Modification of plastics extrusion facility to update silo and extrusion capacity and to update equipment list

10. North American Industry Classification System **(NAICS)** code for the facility:
326122

11A. DAQ Plant ID No. (for existing facilities only):
0 2 1 – 0 0 0 0 7

11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):
R13-2243C

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits,** please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

Route 5 East from Glenville to Hays City. Turn left on Vanhorn Drive to dead end.

12.B. New site address (if applicable):	12C. Nearest city or town:	12D. County:
Same	Glenville	Gilmer
12.E. UTM Northing (KM): 4310.5	12F. UTM Easting (KM): 516.3	12G. UTM Zone: 17

13. Briefly describe the proposed change(s) at the facility:
Removal of PVS lines and associated equipment and upgrade in capacity of one blender, one loader, and three extruders.

14A. Provide the date of anticipated installation or change: ASAP – If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: A portion of the equipment was installed by 10/15/10 but has not been operated	14B. Date of anticipated Start-Up if a permit is granted: ASAP

14C. Provide a **Schedule** of the planned **Installation** of/**Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 24 Days Per Week 7 Weeks Per Year 52

16. Is demolition or physical renovation at an existing facility involved? ☐ **YES** ☒ **NO**

17**. Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18**. Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process *(if known).* A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance *(if known).* Provide this information as **Attachment D.**

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan,** e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to ***Plot Plan Guidance***) **.**

– Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F.**

23. Provide a **Process Description** as **Attachment G.**

– Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**

– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I.**

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.**

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.**

28. Check all applicable **Emissions Unit Data Sheets** listed below:

☐ Bulk Liquid Transfer Operations	☐ Haul Road Emissions	☐ Quarry
☐ Chemical Processes	☐ Hot Mix Asphalt Plant	☐ Solid Materials Sizing, Handling and Storage Facilities
☐ Concrete Batch Plant	☐ Incinerator	☐ Storage Tanks
☐ Grey Iron and Steel Foundry	☐ Indirect Heat Exchanger	

☒ General Emission Unit, specify: Blenders, extruders, loaders, and silos

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.**

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

☐ Absorption Systems	☒ Baghouse	☐ Flare
☐ Adsorption Systems	☐ Condenser	☐ Mechanical Collector
☐ Afterburner	☐ Electrostatic Precipitator	☐ Wet Collecting System

☐ Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.**

30. Provide all **Supporting Emissions Calculations** as **Attachment N,** or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O.**

- Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and ***Example Legal Advertisement*** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

☐ **YES** ☒ **NO**

- If **YES,** identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's ***"Precautionary Notice – Claims of Confidentiality"*** guidance found in the ***General Instructions*** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

☐ Authority of Corporation or Other Business Entity	☐ Authority of Partnership
☐ Authority of Governmental Agency	☐ Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned ☒ **Responsible Official** / ☒ **Authorized Representative,** hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE _____ DATE: 5-24-17
(Please use blue ink) *(Please use blue ink)*

35B. Printed name of signee: Doug Morris		35C. Title: President
35D. E-mail: doug@waco-trio.com	36E. Phone: (304) 462-5779	36F. FAX: (304) 462-8760
36A. Printed name of contact person (if different from above): Jennie L. Henthorn		36B. Title: Owner Henthorn Environmental Services LLC
36C. E-mail: jhenthorn@henthornenv.com	36D. Phone: (304) 727-1445	36E. FAX: (304) 727-1554

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- ☐ **Attachment A: Business Certificate**
- ☐ **Attachment B: Map(s)**
- ☐ **Attachment C: Installation and Start Up Schedule**
- ☐ **Attachment D: Regulatory Discussion**
- ☐ **Attachment E: Plot Plan**
- ☒ **Attachment F: Detailed Process Flow Diagram(s)**
- ☒ **Attachment G: Process Description**
- ☐ **Attachment H: Material Safety Data Sheets (MSDS)**
- ☒ **Attachment I: Emission Units Table**
- ☐ **Attachment J: Emission Points Data Summary Sheet**
- ☐ **Attachment K: Fugitive Emissions Data Summary Sheet**
- ☐ **Attachment L: Emissions Unit Data Sheet(s)**
- ☐ **Attachment M: Air Pollution Control Device Sheet(s)**
- ☒ **Attachment N: Supporting Emissions Calculations**
- ☐ **Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans**
- ☒ **Attachment P: Public Notice**
- ☐ **Attachment Q: Business Confidential Claims**
- ☐ **Attachment R: Authority Forms**
- ☐ **Attachment S: Title V Permit Revision Information**
- ☐ **Application Fee**

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- ☐ ***Forward 1 copy of the application to the Title V Permitting Group and:***
- ☐ ***For Title V Administrative Amendments:***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit,***
- ☐ ***For Title V Minor Modifications:***
  - ☐ ***Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit.***
- ☐ ***For Title V Significant Modifications processed in parallel with NSR Permit revision:***
  - ☐ ***NSR permit writer should notify a Title V permit writer of draft permit,***
  - ☐ ***Public notice should reference both 45CSR13 and Title V permits,***
  - ☐ ***EPA has 45 day review period of a draft permit.***

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

Attachment F

Process Flow Diagram

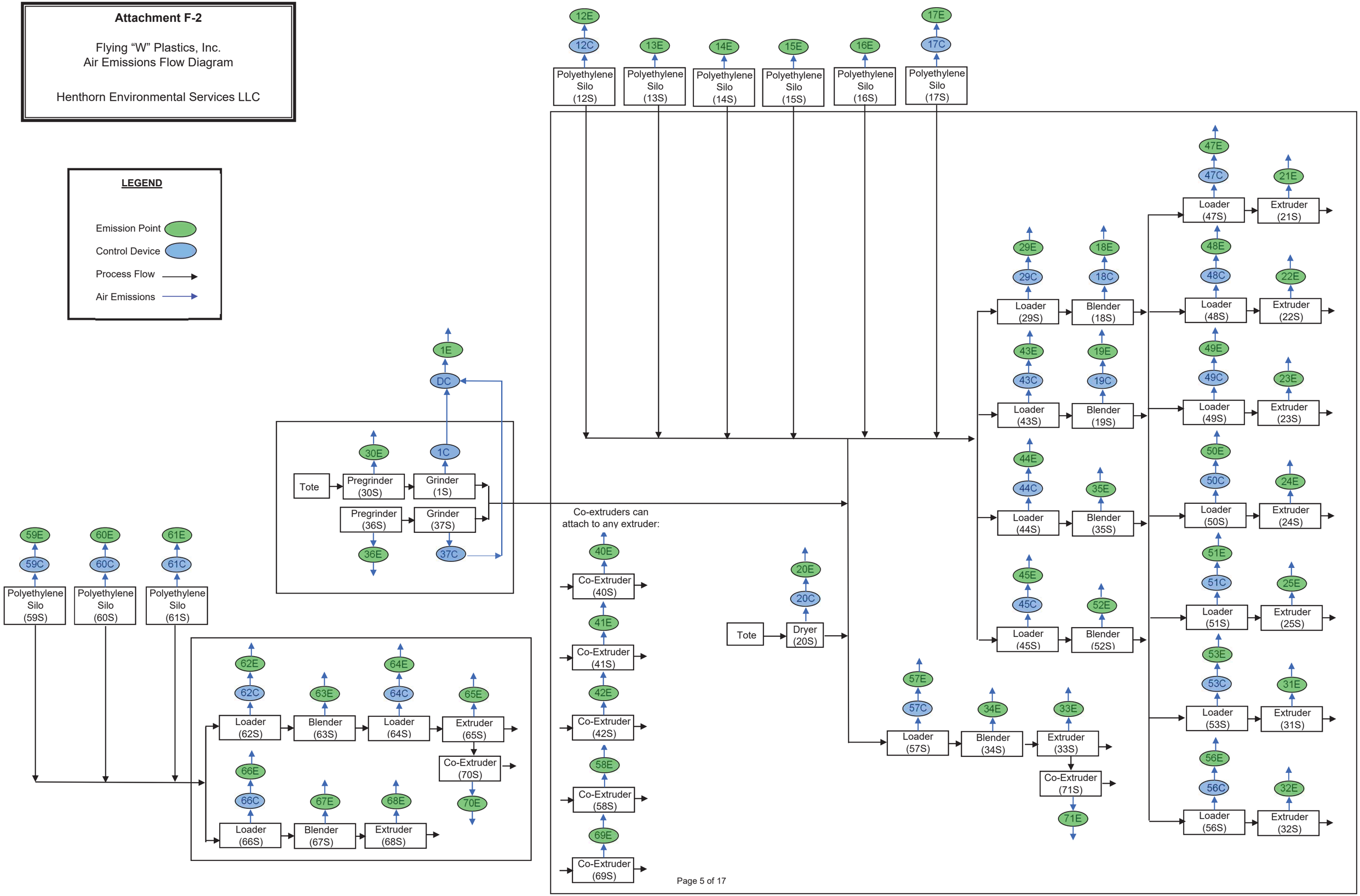
Attachment F-2

Flying "W" Plastics, Inc.
Air Emissions Flow Diagram

Henthorn Environmental Services LLC

LEGEND

- Emission Point
- Control Device
- Process Flow
- Air Emissions



Attachment G

Process Description

Attachment G
Process Description

Flying “W” Plastics, Inc., (“Flying W”) manufactures extruded polyethylene components. Flying W proposes to relocate Extruder 68S to replace Extruder 24S, and to replace Extruder 68S with a 1200 lb/hr Davis Standard extruder. These changes result in very modest increases in emissions from this equipment. In addition, Flying W has identified three co-extruders that were inadvertently not included in prior permits. These co-extruders are negligible emissions sources but have been included for accuracy. Flying W recently removed Loader 46S and Blender 54S. Finally, Flying W noted several items for cleanup in the Emissions Unit table in the permit based on prior revisions at the facility. These cleanup items were inadvertently overlooked in reviewing the previous draft permit prior to issuance. They do not affect emissions calculations for the facility.

Attachment I

Emission Units Table

Attachment I

Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device[4]
1S	1E	Cumberland Grinder	--	2,000 lb/hr	--	1C
12S	12E	Silo	--	2,500 lb/hr	--	12C
13S	13E	Silo	--	2,500 lb/hr	--	--
14S	14E	Silo	--	2,500 lb/hr	--	--
15S	15E	Silo	--	2,500 lb/hr	--	--
16S	16E	Silo	--	2,500 lb/hr	--	--
17S	17E	Silo	--	2,500 lb/hr	--	17C
18S	18E	Blender	--	2,500 lb/hr	--	18C
19S	19E	Blender	--	2,500 lb/hr	--	19C
20S	20E	Dryer	--	2,500 lb/hr	--	20C
21S	21E	Davis Standard Extruder	2011	500 lb/hr	Replace	--
22S	22E	Davis Standard Extruder	2012	800 lb/hr	Replace	--
23S	23E	Davis Standard Extruder	2012	600 lb/hr	Replace	--
24S	24E	Berlyn Extruder	2010	600 lb/hr	Relocated (65S)	--
25S	25E	Davis Standard Extruder	2015	600 lb/hr	Replaced	--
29S	29E	Conair Vacuum Loader	--	600 lb/hr	--	29C
30S	30E	Retech Pregrinder	--	2,000 lb/hr	--	--
31S	31E	Polyethylene (PE) Extruder	--	750 lb/hr	--	--
32S	32E	PE Extruder	--	750 lb/hr	--	--
33S	33E	PE Extruder	2012	1,500 lb/hr	--	--
34S	34E	Conair McGuire PE Blender	2012	1,500 lb/hr	--	--
35S	35E	Conair McGuire PE Blender	Post 1999	1,300 lb/hr	--	--
36S	36E	Pregrinder	Post 1999	1,200 lb/hr	--	--

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device[4]
37S	1E	Grinder	Post 1999	1,200 lb/hr	--	37C
~~38S~~	~~38E~~	~~Aspirator~~	~~Post 1999~~	~~2,000 lb/hr~~	~~Removed 2012~~	~~38C~~
39S	39E	PE Coextruder	Post 1999	30 lb/hr	--	--
40S	40E	PE Coextruder	Post 1999	30 lb/hr	--	--
41S	41E	PE Coextruder	Post 1999	30 lb/hr	--	--
42S	42E	PE Coextruder	Post 1999	30 lb/hr	--	--
43S	43E	Vacuum Loader	Post 1999	600 lb/hr	--	43C
44S	44E	Vacuum Loader	Post 1999	600 lb/hr	--	44C
45S	45E	Vacuum Loader	Post 1999	600 lb/hr	--	45C
47S	47E	Vacuum Loader	Post 1999	600 lb/hr	--	47C
48S	48E	Vacuum Loader	Post 1999	800 lb/hr	--	48C
49S	49E	Vacuum Loader	Post 1999	600 lb/hr	--	49C
50S	50E	Vacuum Loader	Post 1999	600 lb/hr	--	50C
51S	51E	Vacuum Loader	Post 1999	600 lb/hr	--	51C
52S	52E	Gravimetric Blender	05/07	3,200 lb/hr	--	--
53S	53E	Vacuum Loader	Post 1999	2,500 lb/hr	--	53C
56S	56E	Vacuum Loader	--	2,500 lb/hr	--	56C
57S	57E	Vacuum Loader	--	1,500 lb/hr	--	57C
58S	58E	PE Coextruder	2011	30 lb/hr	New	--
59S	59E	Columbian Tech Tank Silo	2011	160,000 lb	New	59C
60S	60E	Columbian Tech Tank Silo	2011	160,000 lb	New	60C
61S	61E	Columbian Tech Tank Silo	2011	160,000 lb	New	61C
62S	62E	Conair Loader	2010	1,500 lb/hr	New	62C
63S	63E	Blender	2010	1,500 lb/hr	New	--
64S	64E	Conair Loader	2010	1,500 lb/hr	New	64C
65S	65E	Davis Standard Extruder	2011	2,000 lb/hr	New	--
66S	66E	Loader	2011	2,500 lb/hr	New	66C

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device[4]
67S	67E	Blender	2011	2,500 lb/hr	New	--
68S	68E	Davis Standard Extruder	2017	1,200 lb/hr	New	--
69S	69E	PE Coextruder	Post 1999	30 lb/hr	--	--
70S	70E	PE Coextruder	Post 1999	30 lb/hr	--	--
71S	71E	PE Coextruder	Post 1999	30 lb/hr	--	--

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

Attachment N

Emissions Calculations

Total Change in Emissions

	Particulate Matter				VOCs			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Silos								
Blenders	-0.12	-0.53	-0.02	-0.11				
Screener, Dryer								
Vacuum Loaders	-0.24	-1.05	0.00	-0.01				
Extruders	0.42	1.83	0.08	0.37	0.03	0.12	0.03	0.12
Granulators								
TOTAL	**0.06**	**0.25**	**0.06**	**0.25**	**0.03**	**0.12**	**0.03**	**0.12**

Total Facility Emissions

	Particulate Matter				VOCs			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Silos	9.00	39.42	1.80	7.88				
Blenders	6.12	26.81	0.84	3.70				
Screener, Dryer	1.00	4.38	0.01	0.04				
Vacuum Loaders	7.28	30.84	0.07	0.31				
Extruders	4.70	20.60	0.94	4.12	0.29	1.28	0.29	1.28
Granulators	2.56	11.21	0.27	1.18				
TOTAL	**30.66**	**133.25**	**3.93**	**17.23**	**0.29**	**1.28**	**0.29**	**1.28**

Emission Calculations for Silos

	12S	13S	14S	15S	16S	17S	59S	60S	61S	TOTALS
Transfer Rate (lb/hr)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
Transfer Rate (ton/hr)	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Emission Factor (lb/ton)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Uncontrolled PM Emissions (lb/hr)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	9.00
Control Efficiency	80%	80%	80%	80%	80%	80%	80%	80%	80%	
Controlled PM Emissions (lb/hr)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.80
Uncontrolled PM Emissions (ton/yr)	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	4.38	39.42
Controlled PM Emissions (ton/yr)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	7.88

Emission Calculations for Blenders

	18S	19S	34S	35S	52S	~~54S~~	63S	67S	TOTALS	Change
Transfer Rate (lb/hr)	2,500	2,500	1,500	1,300	3,200	~~300~~	1,500	2,500		
Transfer Rate (ton/hr)	1.25	1.25	0.75	0.65	1.6	~~0.15~~	0.75	1.25		
Transfer Time (hr)	1	1	1	1	1	~~1~~	1	1		
Emission Factor (lb/ton)	0.8	0.8	0.8	0.8	0.8	~~0.8~~	0.8	0.8		
Uncontrolled PM Emissions (lb/hr)	1	1	0.6	0.52	1.28	~~0.12~~	0.6	1	6.12	-0.12
Control Efficiency	99%	99%	80%	80%	80%	~~80%~~	80%	80%		
Controlled PM Emissions (lb/hr)	0.01	0.01	0.12	0.10	0.26	~~0.02~~	0.12	0.20	0.84	-0.024
Uncontrolled PM Emissions (ton/yr)	4.38	4.38	2.63	2.28	5.61	~~0.53~~	2.63	4.38	26.81	-0.53
Controlled PM Emissions (ton/yr)	0.04	0.04	0.53	0.46	1.12	~~0.11~~	0.53	0.88	3.70	-0.11

Emission Calculations for Screener, Dryer

	20S	TOTALS
Transfer Rate (lb/hr)	2,500	
Transfer Rate (ton/hr)	1.25	
Transfer Time (hr)	1	
Emission Factor (lb/ton)	0.8	
Uncontrolled PM Emissions (lb/hr)	1.00	1.00
Control Efficiency	99%	
Controlled PM Emissions (lb/hr)	0.01	0.01
Uncontrolled PM Emissions (ton/yr)	4.38	4.38
Controlled PM Emissions (ton/yr)	0.04	0.04

Emission Calculations for Vacuum Loaders

	29S	48S	43S-45S;47S;49S-51S	53S & 56S	57S	62S & 64S	66S	TOTALS	Change
Transfer Rate (lb/hr)	600	800	600	2500	1500	1500	2500		
Transfer Rate (ton/hr)	0.30	0.40	0.30	1.25	0.75	0.75	1.25		
Transfer Time (hr)	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Emission Factor (lb/ton)	0.80	0.80	0.80	0.80	0.80	0.80	0.80		
Uncontrolled PM Emissions (lb/hr)	0.24	0.32	0.24	1.00	0.60	0.60	1.00	7.28	-0.240
Control Efficiency	99%	99%	99%	99%	99%	99%	99%		
Controlled PM Emissions (lb/hr)	0.002	0.003	0.002	0.01	0.01	0.006	0.010	0.07	-0.002
Uncontrolled PM Emissions (ton/yr)	1.05	1.40	1.05	4.38	2.63	2.63	4.38	30.84	-1.05
Controlled PM Emissions (ton/yr)	0.01	0.01	0.01	0.04	0.03	0.03	0.04	0.31	-0.01

Emission Calculations for Extruders

				Permitted	Proposed				Proposed (3 added)			Permitted	Proposed		
	21S	**22S**	**23S**	**24S**	**24S**	**25S**	**31S & 32S**	**33S**	**39S-42S; 69S-71S**	**58S**	**65S**	**68S**	**65S**	**TOTALS**	**Change**
Amount Extruded (lb/hr)	500	800	600	500	600	600	750	1500	30	30	1200	600	1200		
VOC Emission Factor (lb/MM lb)	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8		
Uncontrolled VOC Emissions (lb/hr)	0.018	0.02864	0.021	0.0179	0.02148	0.02148	0.03	0.05	0.001	1.07E-03	0.04296	0.02	0.04296	0.29	0.03
Uncontrolled VOC Emissions (ton/yr)	0.08	0.13	0.09	0.08	0.09	0.09	0.12	0.24	0.005	4.70E-03	0.19	0.09	0.19	1.28	0.12
Average Weight of Vinyl Extruded (lb/ft)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5			2.5	2.5	2.5		
Length of Cut Secions (ft)	21	21	21	21	21	21	21	21			21	21	21		
Number of Cuts per Hour	9.52	15.24	11.43	9.52	11.43	11.43	14.29	28.57			22.86	11.43	22.86		
Width of Saw Blade (ft)	0.01	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125			0.0125	0.0125	0.0125		
Uncontrolled PM Emissions - Pipe (lb/hr)	0.30	0.48	0.36	0.30	0.36	0.36	0.45	0.89			0.71	0.36	0.71	4.70	0.42
Building Control Efficiency	80%	80%	80%	80%	80%	80%	80%	80%			80%	80%	80%		
Controlled PM Emissions (lb/hr)	0.06	0.10	0.07	0.06	0.07	0.07	0.09	0.18			0.14	0.07	0.14	0.94	0.08
Uncontrolled PM Emissions (ton/yr)	1.30	2.09	1.56	1.30	1.56	1.56	1.96	3.91			3.13	1.56	3.13	20.60	1.83
Controlled PM Emissions (ton/yr	0.26	0.42	0.31	0.26	0.31	0.31	0.39	0.78			0.63	0.31	0.63	4.12	0.37

Emission Calculations for Grinders, Hammermills, Pulverizers

	1S	30S	36S	37S	Totals
Transfer Rate (lb/hr)	2,000	2,000	1,200	1,200	
Transfer Rate (ton/hr)	1	1	0.6	0.6	
Transfer Time (hr)	1	1	1	1	
Emission Factor (lb/ton)	0.8	0.8	0.8	0.8	
Uncontrolled PM Emissions (lb/hr)	0.8	0.8	0.48	0.48	2.56
Control Efficiency	99%	80%	80%	99%	
Controlled PM Emissions (lb/hr)	0.008	0.160	0.096	0.005	0.27
Uncontrolled PM Emissions (ton/yr)	3.50	3.50	2.10	2.10	11.21
Controlled PM Emissions (ton/yr)[1]	0.04	0.70	0.42	0.02	1.18

Attachment P

Public Notice

Attachment P

AIR QUALITY PERMIT NOTICE
Notice of Application

Notice is given that Flying “W” Plastics, Inc., has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Class II Administrative Update for facility revisions to allow for replacement of extruders at its plastics extrusion facility located at 487 Vanhorn Drive, Glenville, Gilmer County, West Virginia. The latitude and longitude coordinates for the facility are: 38.944248° latitude, -80.812453° longitude.

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be:

PM	0.37 TPY
VOCs	0.12 TPY

Startup of operation is planned to begin as soon as possible, on or about the 31st day of July, 2017. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this the 25th day of May, 2017.

By: Flying “W” Plastics, Inc.
Doug Morris, President
Post Office Box 759
Glenville, West Virginia 26351