

Ashland Inc.
100 Big Sandy River Rd.
Kenova, WV 25530
Phone: 304-528-2600; Fax: 304-528-2648

www.ashland.com

February 4, 2016

VIA FEDERAL EXPRESS

Assistant Director for Permitting
WV Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304

Re: Temporary Permit Application for 40 Portable Diesel Fuel Fired Air Compressors
Ashland Inc.
Neal Facility
Plant ID No. 099-00009

Director:

Ashland Inc. is submitting the attached application for a temporary permit for the Ashland Inc. facility located at 100 Big Sandy River Road in Kenova, WV. Enclosed please find a total of 1 hard copy and 2 CDs of the application.

This application is being submitted for 40 Portable Diesel Fuel Fired Air Compressors to serve as primary supply of compressed air, a raw material in the production of maleic anhydride, in the event that one of the two existing electric air compressors experiences extended downtime for maintenance or repairs. Due to the age of the existing electric air compressor units, there is some concern that the plant could possibly require an alternate supply of compressed air at some point during the year. At this time it is not known if or when these units will need to be installed however this application is being submitted so that the necessary permitting will be in place should the situation arise where the plant needs to bring in these portable units in order to continue operating. Ashland will contact West Virginia Department of Environmental Protection (WV DEP) of our intent to bring in the units prior to commencing mobilization of the units.

Should you have any questions concerning this information please feel free to contact me at 614-790-4641 or via email at klong@ashland.com.

Regards,



Kara Long
Corporate Environmental Engineer

cc: Steven Dunsmore – Plant Manager
File: APM/Neal, WV/Permits/Air

Ashland Inc.
50 E. RiverCenter Blvd.
Covington KY 41012

64-79/611
CHECK NO. 20140059

DATE: 02/02/2016

PAY EXACTLY *

1,000 USD AND 00/100

AMOUNT
USD *****1,000.00*
VOID AFTER 180 DAYS

PAY TO THE
ORDER OF

WV DEPT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER & WASTE
601 57TH ST SE
CHARLESTON WV 25304

BY

Lynn P. Truma

SunTrust Bk, ATLANTA, GA

SECURITY FEATURES INCLUDED, DETAILS ON BACK.

⑈ 20140059 ⑆ ⑆ 061100790 ⑆ 8800619556 ⑆

Vendor No. 2064825	Ashland Inc.			Check No. 20140059
REFERENCE NUMBER	INVOICE AMOUNT	DISCOUNT AMT	NET AMOUNT	
Ashland Inc. Corporate Headquarters				
03243427 *TEMPORARY AIR PERMIT FEE	1,000.00	0.00	1,000.00	
Sum total	1,000.00	0.00	1,000.00	

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Temporary Permit Application Form
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Application Fee



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): Ashland Inc.		2. Federal Employer ID No. (FEIN): 20-0865835	
3. Name of facility (if different from above): Ashland Inc.		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: 100 Big Sandy River Rd. Kenova, WV 25530		5B. Facility's present physical address: Same as mailing address	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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: N/A			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO – If YES, please explain: Applicant owns the proposed 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.): Temporary permit for portable diesel fuel fired air compressors to support operations while the primary air compressor is being repaired.		10. North American Industry Classification System (NAICS) code for the facility: 2869	
11A. DAQ Plant ID No. (for existing facilities only): 099-00009		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-2685T, R14-008K, R30-09900009-2012, R-13-3182T	

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**.

The plant is located on the west side of the Big Sandy River Road, 0.9 miles south of the junction of Big Sandy River Road with I-64. The plant is most easily accessed from Exit 1, the Kenova exit, of I-64 then following Route 52 south for about 2 miles to the intersection of Rt. 52 and Big Sandy River Road.

12.B. New site address (if applicable):	12C. Nearest city or town: Kenova, WV	12D. County: Wayne
12.E. UTM Northing (KM): 4,247.7	12F. UTM Easting (KM): 360.8	12G. UTM Zone: 17

13. Briefly describe the proposed change(s) at the facility:
Installation of temporary portable diesel fuel fired air compressors to support operations while the primary air compressor is repaired.

14A. Provide the date of anticipated installation or change: 3/22/2014 - If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: TBD based upon need
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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). Start-up is TBD based on need

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 24 Days Per Week 7 Weeks Per Year 35

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:

- | | | |
|--|--|--|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |
| <input checked="" type="checkbox"/> General Emission Unit, specify Portable, Diesel Fuel Fired Air Compressors | | |

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

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

- | | | |
|---|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> 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:

- | | |
|--|---|
| <input type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> 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 _____

(Please use blue ink)

DATE: _____

2/4/16

(Please use blue ink)

35B. Printed name of signee: Russell J. Montgomery

35C. Title: Vice President of Operations, APM

35D. E-mail: rjmontgomery@ashland.com

36E. Phone: 614-790-3300

36F. FAX:

36A. Printed name of contact person (if different from above): Matthew Murray

36B. Title: Process Engineer

36C. E-mail: memurray@ashland.com

36D. Phone: 304-528-2634

36E. FAX:

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

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

40 CFR 63 Subpart ZZZZ (RICE MACT) is not applicable to these sources since they are portable.

45 CSR 10-3.3.f. – Maximum allowable sulfur dioxide emission rate of 3.2 times the total design heat input of the units in MMBTU/hr

45 CSR 13-11 – Temporary Permits

(PM/PM10/PM2.5, NOx, SO2, CO, VOC, HAPs)
Vent

Diesel Fuel

Temporary Portable
Air Compressors (40)

Compressed Air



KEY

FORCED AIR

LOCAL VENTILATION

FUGITIVE EMISSIONS

PROCESS

FLOW

*Ashland Performance Materials –
Neal, WV*

**Temporary Diesel Fired Air Compressors
(#1 through 40)**

By: NMH Date: 03 -21-2014 Scale: None

Attachment G – Process Description

This permit application is being submitted for 40 temporary portable diesel fired air compressors to supply raw material (compressed air) to the process. The existing electric air compressor is aging and the reliability of the unit is unknown. This permit application is being submitted in case a situation arises where the electric air compressor goes down, so that the plant could bring in portable diesel fired air compressors to supply air to the process and continue to make product. The portable units would only be used until repairs and/or replacement of the electric air compressor could be completed.

In the event the plant needs to bring the portable air compressor units in, Ashland Performance Materials will notify WV DEP prior to bringing the portable air compressor units on site.

**Attachment J
EMISSION POINTS DATA SUMMARY SHEET**

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)	
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr				
17E	TBD	008	01 thru 40*	N/A	N/A	N/A	N/A	PM-2.5 PM-10 SOx NOx VOC CO CO2 Total HAPs	0.025 0.025 0.156 0.807 0.192 0.437 88 0.035	0.028 0.028 0.176 0.91 0.216 0.49 99 0.039			Gas	AP-42	NK	

• Emissions shown above represent the emissions from one of the 40 portable air compressors that will be installed (if needed). A summation of the total project emissions is included in the attached emissions calcs.

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncontrolled process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncontrolled emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

¹ Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

² Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (ie., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).

³ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.

⁴ Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁵ Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁶ Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

⁷ Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on *Equipment List Form*): 008-01

1. Name or type and model of proposed affected source:

40 temporary portable diesel fuel-fired air compressors

NOTE: The unit has not yet been selected, so "TBD" has been provided below when specific information is not yet available. Data provided is per unit. See Attachment N for total emissions for the project.

2. On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.

3. Name(s) and maximum amount of proposed process material(s) charged per hour:

N/A

4. Name(s) and maximum amount of proposed material(s) produced per hour:

1527 acfm compressed air

5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:

N/A

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

diesel fuel, 24.6 gallons/hour

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

0.015% sulfur (Nick said 0.5% is in their fire pump tank, but they've used 0.015% on previous applications)
0.01% ash

(c) Theoretical combustion air requirement (ACF/unit of fuel):

TBD @ °F and psia.

(d) Percent excess air: TBD

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

internal combustion engine

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

N/A

(g) Proposed maximum design heat input: TBD × 10⁶ BTU/hr.

7. Projected operating schedule:

Hours/Day	24	Days/Week	7	Weeks/Year	13
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8. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:

@	1152	°F and	ATM	psia
a. NO _x	0.807	lb/hr	294	grains/ACF
b. SO ₂	0.156	lb/hr	11.9	grains/ACF
c. CO	0.437	lb/hr	33.4	grains/ACF
d. PM ₁₀	0.025	lb/hr	1.93	grains/ACF
e. Hydrocarbons	0.192	lb/hr	14.6	grains/ACF
f. VOCs	0.192	lb/hr	14.6	grains/ACF
g. Pb	not known	lb/hr	not known	grains/ACF
h. Specify other(s)				
See Attachment N		lb/hr		grains/ACF
		lb/hr		grains/ACF
		lb/hr		grains/ACF
		lb/hr		grains/ACF

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. Proposed Monitoring, Recordkeeping, Reporting, and Testing
 Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING
 none proposed for this temporary, portable source

RECORDKEEPING
 hours of operation

REPORTING
 none proposed for this temporary, portable source

TESTING
 N/A

MONITORING. PLEASE LIST AND DESCRIBE THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty
 TBD



Manufacturing
 Birch Road
 Dumbarton, G82 2RF
 Tel: 0044 (0)1389 742214
 Fax: 0044 (0)1389 742554

EQUIPMENT DATA SHEET

**Oil Free Compressor
 Diesel Drive
 1500SCFM/150PSi**

**No. G08.0180
 Rev. Prelim
 Date Jun 2001
 Page 1 of 3**

1	Model	Ref	OFCD 1500/150
2	Part Number	Ref	604013
3	Specification	Ref	TBA
4	Installation Drawing	Ref	A050125
5	General Compressor Data	<u>NOTE (i)</u>	
5.1	Capacity FAD (at stated pressure)		
	150 psig (10.34 barg)	CFM (m3/min)	1,527 (43.24)
	140 psig (9.66 barg)	CFM (m3/min)	1,527 (43.25)
	125 psig (8.62 barg)	CFM (m3/min)	1,528 (43.26)
	115 psig (7.93 barg)	CFM (m3/min)	1,528 (43.26)
	100 psig (6.89 barg)	CFM (m3/min)	1,528 (43.27)
	85 psig (5.86 barg)	CFM (m3/min)	1,529 (43.28)
5.2	Compressor Shaft Power (at stated pressure)		
	150 psig (10.34 barg)	HP (kW)	409 (304.80)
	140 psig (9.66 barg)	HP (kW)	396 (295.10)
	125 psig (8.62 barg)	HP (kW)	376 (280.50)
	115 psig (7.93 barg)	HP (kW)	362 (269.80)
	100 psig (6.89 barg)	HP (kW)	335 (250.00)
	85 psig (5.86 barg)	HP (kW)	311 (231.70)
5.3	Specific Power (at stated pressure)		
	150 psig (10.34 barg)	HP/100CFM (kWm3/min)	26.77 (7.05)
	140 psig (9.66 barg)	HP/100CFM (kWm3/min)	25.91 (6.82)
	125 psig (8.62 barg)	HP/100CFM (kWm3/min)	24.62 (6.48)
	115 psig (7.93 barg)	HP/100CFM (kWm3/min)	23.68 (6.24)
	100 psig (6.89 barg)	HP/100CFM (kWm3/min)	21.94 (5.78)
	85 psig (5.86 barg)	HP/100CFM (kWm3/min)	20.33 (5.35)
6	Compressor Shaft Power at No Load	HP (kW)	76.30 (56.90)
7	Operating Pressures		
	Full Load Operating Pressure	psig (barg)	150 (10.30)
	Maximum Off Line Pressure	psig (barg)	153 (10.50)
	Minimum Operating Temperature	°F (°C)	-10 (-24)
	Maximum Operating Ambient Temperature	°F (°C)	115 (46)
8	Compression Module		CD26D
	Number of Compressor Stages		2
	1st Stage		
	Rotor Diameter	mm	193.6
	Male Rotor Speed	RPM	9034
	Tip Speed	m/s	91.58
	2nd Stage		
	Rotor Diameter	mm	114.75
	Male Rotor Speed	RPM	15710
	Tip Speed	m/s	94.39

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Manufacturing
 Birch Road
 Dumbarton, G82 2RF
 Tel: 0044 (0)1389 742214
 Fax: 0044 (0)1389 742554

EQUIPMENT DATA SHEET

**Oil Free Compressor
 Diesel Drive
 1500SCFM/150PSi**

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9	Cooling Data	<i>NOTE (iii)</i>		
	Cooling Air Flow (Main Intake)	cfm (m3/min)	25000	(708)
	Cooling Air Flow (Side Intake)	cfm (m3/min)	15000	(425)
	Aftercooler Inlet Temperature @ Full Load	°F (°C)	300 to 420	(149 to 216)
	Aftercooler CTD	°F (°C)	13	(7)
	Intercooler Inlet Temperature @ Full Load	°F (°C)	265 to 400	(129 to 204)
	Intercooler CTD	°F (°C)	21	(11)
	Cooling Air DeltaT	°F (°C)	65	(33)
10	Engine			
	Make & Type		Cummins Diesel QSX15	
	Cylinders & Form		6 in line	
	Aspiration		Turbocharged and Aircooled	
	Fuel System		Celect Electronic	
	Battery Voltage	Volts	24	
11	Fuel Consumption (steady state)			
	1400 rpm	US gal/hr (lit/hr)	38.4	(145.5)
	1600 rpm	US gal/hr (lit/hr)	27.2	(102.9)
	1800 rpm	US gal/hr (lit/hr)	24.6	(93.4)
12	Running Time			
	1400 rpm	Hours	6.8	
	1600 rpm	Hours	9.6	
	1800 rpm	Hours	10.57	
13	Engine Gas Flow			
	Intake Air Flow at Rated Power	cfm (L/s)	1125	(531)
	Exhaust Gas Flow	cfm (L/s)	3309	(1562)
	Exhaust Gas Temperature	°F (°C)	1152	(622)
14	Exhaust Emissions			
	Measurement Method		ISO 8178	
	Specific Load		100% Load ±2%	
	NOx - Oxides of Nitrogen	gm/hp.h (gm/kw.hr)	4.80	(6.40)
	PM - Particulate Matter		0.15	(0.20)
	CO - Carbon Monoxide		2.60	(3.49)
15	Fluid Capacities			
	Hydraulic Fan Drive			
	Oil Type		IR - SL200 / VG68	
	Oil Capacity	US gal (Litres)	27	(100)
	Compressor			
	Oil Type		IR - SL200 / VG68	
	Oil Capacity	US gal (Litres)	25	(95)
	Engine			
	Oil Type		Protec™, API, CG -4 or CH -4	
	Oil Capacity	US gal (Litres)	10.5	(40)
	Oil Top-Up Tank Capacity	US gal (Litres)	10.5	(40)
	Coolant Water Capacity	US gal (Litres)	21.0	(80)
	Fuel Tank			
	Fuel Type		Clean Diesel	
	Fuel Capacity (Total)	US gal (Litres)	289	(1095)
	Fuel Capacity (Usable)	US gal (Litres)	261	(988)

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16	Running Gear			
	Maximum Axle Capacity	lbs (kg)	26455	(12000)
	Maximum Towing Speed	mph (Km/Hr)	8	(12.9)
	Tyre Type		Solid	
	Tyre Size	In (mm)	17 x 5	(432 x 127)
17	Overall Dimensions			
	- Length			
	Over Base	feet (Metres)	18'2"	(5.5)
	Over Discharge Valve and Raised Tow Bar	feet (Metres)	19'4"	(5.9)
	Over Discharge Valve and Dropped Tow Bar	feet (Metres)	23'4"	(7.1)
	- Width	feet (Metres)	7'1"	(2.1)
	- Height (including wheels)	feet (Metres)	8'4"	(2.54)
18	Weight			
	- Without fuel	lbs (Kg)	22980	(10420)
	- Restricted Fuel (For Transportation)	lbs (Kg)	23500	(10660)
	- Fully Fueled	lbs (Kg)	24820	(11260)
19	Noise Emissions (Note iii)	db(A)	78	@ 7M

NOTES:

- i) FAD (Free Air Delivery) is full load package performance, measured in accordance with acceptance test standard ISO 1217:1996.
 Ratings are based on 14.4 psia, 80°F Cooling Air (Average)
- ii) CTD (Cold Temperature Difference) based on 100°F inlet air @ 40% relative humidity.
- iii) Sound levels are "free field conditions" per CAGI-PNEUROPS S5.1, ± 3dB(A)
- iv) For details on dimensions and pipe connections see Installation Drawing (A05.0125)

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Attachment N
Supporting Emissions Calculations
Temporary Air Compressors
Projected Pollutant Emissions

		Emission Factors*		PTE Assessment (per unit)		PTE Assessment (per unit)		PTE Assessment (per unit)		PTE Assessment Total TPY	
Rating	Fuel Type	Hours of Operation		76.3 hp	Diesel	76.3 hp	Diesel	76.3 hp	Diesel	76.3 hp	Diesel
NO _x				lb/hr	acfm	lb/hr	acfm	TPY	hrs/yr	TPY	Units
			0.01058	0.807	1,152	294	1,152	0.91	2,250	36.3	40
			0.005732	0.437		33.4		0.49		19.7	
			0.00205	0.156		11.9		0.176		7.0	
			0.0003307	0.025		1.93		0.028		1.14	
			0.0003307	0.025		1.93		0.028		1.14	
			1.15	88		6,695		99		3,949	
			0.000463	0.0353		2.70		0.040		1.59	
			0.002514	0.192		14.6		0.216		8.6	
			0.0006531	0.0050		0.380		0.0056		0.224	
			0.0002863	0.00218		0.167		0.00246		0.098	
			0.0001995	0.00152		0.116		0.00171		0.068	
			0.0001806	0.0138		1.05		0.0155		0.62	
			0.00002737	0.000209		0.0159		0.000235		0.0094	
			0.0000826	0.0063		0.481		0.0071		0.284	
			0.00005369	0.0041		0.313		0.0046		0.184	
			0.00006475	0.00049		0.038		0.00056		0.0222	
			0.00005936	0.00045		0.035		0.00051		0.0204	
			3.542E-07	0.0000270		0.00206		0.000030		0.00122	
			9.94E-08	0.0000076		0.00058		0.000085		0.000341	
			0.00002044	0.000156		0.0120		0.000175		0.0070	
			0.00002058	0.000157		0.0119		0.000177		0.0071	
			1.309E-07	0.0000100		0.00076		0.0000112		0.00045	
			5.327E-07	0.000041		0.0031		0.000046		0.00183	
			3.346E-07	0.0000255		0.00195		0.000029		0.00115	
			1.176E-07	0.0000090		0.00068		0.0000101		0.00040	
			2.471E-08	0.0000189		0.000144		0.0000212		0.00085	
			6.937E-09	0.0000053		0.00040		0.0000060		0.000238	
			1.085E-08	0.0000083		0.00063		0.0000093		0.000373	
			1.316E-08	0.0000100		0.00077		0.0000113		0.00045	
			2.625E-08	0.0000200		0.000153		0.0000225		0.00090	
			4.081E-08	0.0000311		0.000238		0.000035		0.00140	
			3.423E-08	0.0000261		0.000199		0.000029		0.00118	
				0.0345		2.63		0.039		1.55	

* USEPA, AP-42 - 3.3 Gasoline and Diesel Industrial Engines (10/96)

** NOx, PM-10, and CO emission factors were provided by the equipment vendor. All PM-10 is assumed to be PM-2.5.

Attachment S
Title V Permit Revision Information

1. New Applicable Requirements Summary	
Mark all applicable requirements associated with the changes involved with this permit revision:	
<input type="checkbox"/> SIP	<input type="checkbox"/> FIP
<input checked="" type="checkbox"/> Minor source NSR (45CSR13)	<input type="checkbox"/> PSD (45CSR14)
<input type="checkbox"/> NESHAP (45CSR15)	<input type="checkbox"/> Nonattainment NSR (45CSR19)
<input type="checkbox"/> Section 111 NSPS (Subpart(s) _____)	<input type="checkbox"/> Section 112(d) MACT standards (Subpart(s) _____)
<input type="checkbox"/> Section 112(g) Case-by-case MACT	<input type="checkbox"/> 112(r) RMP
<input type="checkbox"/> Section 112(i) Early reduction of HAP	<input type="checkbox"/> Consumer/commercial prod. reqts., section 183(e)
<input type="checkbox"/> Section 129 Standards/Reqts.	<input type="checkbox"/> Stratospheric ozone (Title VI)
<input type="checkbox"/> Tank vessel reqt., section 183(f)	<input type="checkbox"/> Emissions cap 45CSR§30-2.6.1
<input type="checkbox"/> NAAQS, increments or visibility (temp. sources)	<input type="checkbox"/> 45CSR27 State enforceable only rule
<input type="checkbox"/> 45CSR4 State enforceable only rule	<input type="checkbox"/> Acid Rain (Title IV, 45CSR33)
<input type="checkbox"/> Emissions Trading and Banking (45CSR28)	<input type="checkbox"/> Compliance Assurance Monitoring (40CFR64) ⁽¹⁾
<input type="checkbox"/> NO _x Budget Trading Program Non-EGUs (45CSR1)	<input type="checkbox"/> NO _x Budget Trading Program EGUs (45CSR26)
<p>⁽¹⁾ If this box is checked, please include Compliance Assurance Monitoring (CAM) Form(s) for each Pollutants Specific Emission Unit (PSEU) (See Attachment H to Title V Application). If this box is not checked, please explain why Compliance Assurance Monitoring is not applicable:</p>	

2. Non Applicability Determinations
List all requirements, which the source has determined not applicable to this permit revision and for which a permit shield is requested. The listing shall also include the rule citation and a rationale for the determination.
<input type="checkbox"/> Permit Shield Requested <i>(not applicable to Minor Modifications)</i>
N/A
<i>All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.</i>

3. Suggested Title V Draft Permit Language

Are there any changes involved with this Title V Permit revision outside of the scope of the NSR Permit revision? Yes No If Yes, describe the changes below.

Also, please provide **Suggested Title V Draft Permit language** for the proposed Title V Permit revision (including all applicable requirements associated with the permit revision and any associated monitoring /recordkeeping/ reporting requirements), OR attach a marked up pages of current Title V Permit. Please include appropriate citations (Permit or Consent Order number, condition number and/or rule citation (e.g. 45CSR§7-4.1)) for those requirements being added / revised.

4. Active NSR Permits/Permit Determinations/Consent Orders Associated With This Permit Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
	MM/DD/YYYY	
	/ /	
	/ /	

5. Inactive NSR Permits/Obsolete Permit or Consent Orders Conditions Associated With This Revision

Permit or Consent Order Number	Date of Issuance	Permit/Consent Order Condition Number
	MM/DD/YYYY	
	/ /	
	/ /	

6. Change in Potential Emissions

Pollutant	Change in Potential Emissions (+ or -), TPY

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

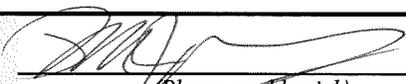
7. Certification For Use Of Minor Modification Procedures (Required Only for Minor Modification Requests)

Note: This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete. The criteria for allowing the use of Minor Modification Procedures are as follows:

- i. Proposed changes do not violate any applicable requirement;
- ii. Proposed changes do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- iii. Proposed changes do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient air quality impacts, or a visibility increment analysis;
- iv. Proposed changes do not seek to establish or change a permit term or condition for which there is no underlying applicable requirement and which permit or condition has been used to avoid an applicable requirement to which the source would otherwise be subject (synthetic minor). Such terms and conditions include, but are not limited to a federally enforceable emissions cap used to avoid classification as a modification under any provision of Title I or any alternative emissions limit approved pursuant to regulations promulgated under § 112(j)(5) of the Clean Air Act;
- v. Proposed changes do not involve preconstruction review under Title I of the Clean Air Act or 45CSR14 and 45CSR19;
- vi. Proposed changes are not required under any rule of the Director to be processed as a significant modification;

Notwithstanding subparagraph 45CSR§30-6.5.a.1.A. (items i through vi above), minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in rules of the Director which are approved by the U.S. EPA as a part of the State Implementation Plan under the Clean Air Act, or which may be otherwise provided for in the Title V operating permit issued under 45CSR30.

Pursuant to 45CSR§30-6.5.a.2.C., the proposed modification contained herein meets the criteria for use of Minor permit modification procedures as set forth in Section 45CSR§30-6.5.a.1.A. The use of Minor permit modification procedures are hereby requested for processing of this application.

(Signed):  Date: 2 / 4 / 16
(Please use blue ink) (Please use blue ink)
 Named (typed): Russell J. Montgomery Title: V.P. of Operations, APM

Note: Please check if the following included (if applicable):

- Compliance Assurance Monitoring Form(s)
- Suggested Title V Draft Permit Language

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

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**ASHLAND INC
DBA ASHLAND CHEMICAL COMPANY
100 BIG SANDY RIVER RD
KENOVA, WV 25530-1821**

BUSINESS REGISTRATION ACCOUNT NUMBER: 1049-6542

This certificate is issued on: 06/14/2011

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.
This certificate shall be permanent until cessation of the business for which the certificate of registration
was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new
certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of
this certificate displayed at every job site within West Virginia.