

# Iowa Department of Natural Resources

## Air Quality Construction Permits

### Collection of Air Permits

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#### Permit Holder

**Firm:** ABC Corporation – Big Town

**Contact:**

John Wayne  
The Duke

(712)-748-4655

100 Main Avenue  
Big Town, IA 50000

**Responsible Party:**

Clint Eastwood  
Director

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#### Project/Process Description

This permit document establishes a bubble limit on 6 emission units/points. The limits established restrict potential emissions below Title V major thresholds and also makes this facility an area source for HAPs. This project adds emission unit EU-20 to the CAP document.

**Equipment Location:** 100 Main Avenue  
Big Town, IA 50000

**Plant Number:** 99-99-999

**Project Number:** 18-5555

**Date:** 12/22/18

**Revision Number:** CAP4

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The permits in this document are issued in accordance with 567 Iowa Administrative Code Chapter 22, and are issued subject to the terms and conditions contained in this document. Issuance of the permits in this document shall not relieve the owner or operator of the responsibility to comply fully with applicable provisions of the State Implementation Plan (SIP), and any other requirements of local, state, and federal law. If any permit contained in this document is modified, superseded, expires, or for any other reason changes or ceases to exist, the status of that permit shall not affect the validity or enforceability of any other permit contained in this document.

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Under the Direction of the Director of  
the Department of Natural Resources



## PERMIT CONDITIONS

### 1. Emission Limits and Compliance Determination(s)

A. The following combined emission limits shall not be exceeded for the following emission points:

EP	Pollutant	Emission Limits	Reference/Basis (567 IAC)	Compliance Demonstration	Frequency	Test Run Time	Compliance Method
EP-1 EP-2 EP-4 EP-5 EP-12 EP-20	Volatile Organic Compounds (VOC)	30.0 tons/yr <sup>(1)</sup>	Synthetic Minor	Material tracking	Monthly	N/A	12-month rolling total
	Total HAP	8.9 tons/yr <sup>(2)</sup>	Area Source	Material tracking	Monthly	N/A	12-month rolling total

<sup>(1)</sup> VOC emissions limit corresponds to paint and solvent material usage and VOC content limits specified in Permit Condition 4.

<sup>(2)</sup> Total HAP and Individual HAP emissions limits correspond to paint and solvent material usage and HAP content limits specified in Permit Condition 4.

B. The owner or operator is required to report all emissions as required by law, regardless of whether a specific emission limit has been established in this permit. The following emission limits shall not be exceeded:

EP	Pollutant	Emission Limits	Reference/Basis (567 IAC)	Compliance Demonstration	Frequency	Test Run Time	Compliance Method
EP-1	PM <sub>10</sub>	0.51 lb/hr <sup>(1)</sup>	NAAQS <sup>(2)</sup>	Stack test	One-time	1 hour	40 CFR 51, Appendix M, 201A with 202
EP-2	PM <sub>10</sub>	0.51 lb/hr <sup>(1)</sup>	NAAQS <sup>(2)</sup>	NO	N/A	1 hour	40 CFR 51, Appendix M, 201A with 202
EP-4, EP-5, & EP-12	PM <sub>10</sub>	0.22 lb/hr <sup>(1)</sup>	NAAQS <sup>(2)</sup>	NO	N/A	1 hour	40 CFR 51, Appendix M, 201A with 202
EP-20	PM <sub>10</sub>	0.77 lb/hr <sup>(1)</sup>	NAAQS <sup>(2)</sup>	NO	N/A	1 hour	40 CFR 51, Appendix M, 201A with 202
EP-1 EP-2 EP-4	Particulate Matter (PM) – State	0.01 gr/dscf	23.4(13)	Stack Test	One-time	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
EP-5 EP-12 EP-20	Opacity	40% <sup>(3)(4)</sup>	23.3(2)“d”	Stack Test	One-time	1 hour	40 CFR 60, Appendix A, Method 9

<sup>(1)</sup> The emission limit is expressed as the average of three (3) runs.

<sup>(2)</sup> Modeling language.

<sup>(3)</sup> An exceedance of the indicator opacity of “no visible emissions” will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(4)</sup> The emission limit is a six (6) minute average.

**1. Emission Limits and Compliance Determinations(s) (cont.)**

**If an initial compliance demonstration specified above is testing**, the owner or the owner’s authorized agent shall verify compliance with the emission limitations contained in Permit Condition 1 within sixty (60) days after achieving maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment.

**If subsequent testing is specified above**, the owner or the owner’s authorized agent shall verify compliance with the emission limitations contained in Permit Condition 10 according to the frequency and timeframe noted above.

If testing is required, the owner or the owner’s authorized agent shall use the test method and run time listed in the table below unless another testing methodology is approved by the Department prior to testing.

Each emissions compliance test must be approved by the Department. Unless otherwise specified by the Department, each test shall consist of three (3) separate runs. The arithmetic mean of three (3) acceptable test runs shall apply for compliance, unless otherwise indicated by the Department.

**2. Emission Point Characteristics**

The emission points contained in this permit shall conform to the specifications listed the table below:

EP ID	Stack Height, Feet	Discharge Style	Stack Opening, inches	Stack Temperature, °F	Exhaust Flowrate, SCFM
EP-1	30.6	Vertical Unobstructed	34	70	12,000
EP-2	32	Vertical Unobstructed	34	70	12,000
EP-4	31.5	Vertical Unobstructed	32	78	6000
EP-5	18	Horizontal	12 x 12	80	6000
EP-12	16	Horizontal	14 x 18	80	6000
EP-20	24	Downward	28	80	10,000

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**3. New Source Performance Standards and National Emission Standards for Hazardous Air Pollutants**

- A. New Source Performance Standards (NSPS):  
The emission units are not subject to any of the New Source Performance Standards (NSPS) at this time.
- B. National Emission Standards for Hazardous Air Pollutants (NESHAP):  
The following subparts apply to the emission unit/process/facility:

EU ID	Subpart	Title	Classification	State Reference (567 IAC)	Federal Reference (40 CFR)
EU-1 thru EU-20	A	General Conditions	Area Source	23.1(3)	§63.1 – §63.15
	HHHHHH	Emission standards for hazardous air pollutants for area sources: paint stripping and miscellaneous surface coating operations	Area Source	23.1(4)“eh”	§63.11169 – §63.11180

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#### 4. Operating Requirements and Associated Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of two (2) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. Operating limits and recordkeeping for this emission unit group shall be:

- A. The usage of VOC or HAP containing materials in the emission units included in this document shall not exceed 18,230 gallons per 12-month rolling period. The facility shall record monthly the total amount of VOC-containing material used in the emission units included in this document, in gallons. Calculate and record rolling 12-month totals.
- B. The VOC content of the material used in emission units included in this document shall not exceed 8.0 pounds per gallon.
  - i. The total amount of material used in emission units included in this document that contains a VOC content greater than 5.5 pounds per gallon and less than or equal to 8.0 pounds per gallon shall not exceed 400 gallons per 12-month rolling period.
  - ii. The total amount of material used in emission units included in this document that contains a VOC content greater than 3.0 pounds per gallon and less than or equal to 5.5 pounds per gallon shall not exceed 1000 gallons per 12-month rolling period.
  - iii. The total amount of material used in emission units included in this document that contains a maximum VOC content of up to 3.0 pounds per gallon shall not exceed 16,830 gallons per 12-month rolling period.
  - iv. The facility shall record monthly the total amount of material used in the emission units included in this document for each tier listed in 4.B.i thru 4.B.iii, in gallons. Calculate and record rolling 12-month totals for each tier listed in 4.B.i thru 4.B.iii.
- C. The total HAP content of the material used in emission units included in this document shall not exceed 7.26 pounds per gallon.
  - i. The total amount of material used in emission units included in this document that contains a total HAP content greater than 4.0 pounds per gallon and less than or equal to 7.26 pounds per gallon shall not exceed 400 gallons per 12-month rolling period.
  - ii. The total amount of material used in emission units included in this document that contains a total HAP content greater than 0.65 pounds per gallon and less than or equal to 4.0 pounds per gallon shall not exceed 1000 gallons per 12-month rolling period.
  - iii. The total amount of material used in emission units included in this document that contains a maximum total HAP content of up to 0.65 pounds per gallon shall not exceed 16,830 gallons per 12-month rolling period.
  - iv. The facility shall record monthly the total amount of material used in the emission units included in this document for each tier listed in 4.C.i thru 4.C.iii, in gallons. Calculate and record rolling 12-month totals for each tier listed in 4.C.i thru 4.C.iii.

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#### 5. Continuous Emission Monitoring

Continuous emission monitoring is not required by this permit at this time.

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## 6. Project History

Project No.	Permit No.	Description	Date
16-365	16-A-5000	Original Permits – CAP1	12/02/16
	16-A-5001		
	16-A-5005		
	16-A-5006		
	16-A-5010		
17-111	16-A-5000-S1	Modify Operating Limit (Establish Material Usage and Content Tiers) – CAP2	12/08/17
	16-A-5001-S1		
	16-A-5005-S1		
	16-A-5006-S1		
	16-A-5010-S1		
18-555	16-A-5010-S2	Update Stack Characteristics – CAP3	12/12/18

## 7. Department Review

This permit is issued under the authority of 567 Iowa Administrative Code (IAC) 22.3. The proposed equipment has been evaluated for conformance with Iowa Code Chapter 455B; 567 IAC Chapters 20 – 35; and 40 Code of Federal Regulations (CFR) Parts 51, 52, 60, 61, and 63 and has the potential to comply. This permit is issued based on information submitted by the applicant. Any misinformation, false statements or misrepresentations by the applicant or by the applicant’s representative(s) shall cause this permit to be void.

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. The Department assumes no liability, directly or indirectly, for any loss due to damage to persons or property caused by, resulting from, or arising out of the design, installation, maintenance or operation of the proposed equipment.

## 8. Owner and Operator Responsibility

This permit is for the construction and operation of specific emission unit(s), control equipment, and emission point as described in this permit and in the application for this permit. The permit holder, owner, and operator of the facility shall assure that the installation of the equipment listed in this permit conforms to the design in the application (i.e. type, maximum rated capacity, etc.). No person shall construct, install, reconstruct or alter this emission unit(s), control equipment, or emission point without the required amended permit.

Any owner or operator of the specified emission unit(s), control equipment, or emission point, including any person who becomes an owner or operator subsequent to the date on which this permit is issued, is responsible for assuring that the installation, operation, and maintenance of the equipment listed in this permit is in compliance with the provisions of this permit and all other applicable requirements and that adequate operation and maintenance is provided to ensure that no condition of air pollution is created.

## 9. Transferability

Unless the equipment is portable, this permit is not transferable from one location to another or from one piece of equipment to another. See 567 IAC 22.3(3)“f” for notification requirements for relocating portable equipment.

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## 10. Construction

### A. General Requirements:

It is the owner's responsibility to ensure that construction conforms to the final plans and specifications as submitted.

In permit amendments, all provisions of the original permit remain in full force and effect unless they are specifically changed by the permit amendment. If a proposed project is not timely completed, the owner or operator shall seek a permit amendment in order to revert back to the most recent previous version of the permit. The previous, unchanged permit provisions are included in the amendment for your convenience only and are unappealable.

This permit or amendment shall become void if any one of the following conditions occurs:

- (1) the construction or implementation of the proposed project, as it affects the emission point permitted herein, is not initiated within eighteen (18) months after the permit issuance date; or
- (2) the construction or implementation of the proposed project, as it affects the emission point permitted herein, is not completed within thirty-six (36) months after the permit issuance date; or
- (3) the construction or implementation of the proposed project, as it affects the emission point permitted herein, is not completed within a time period specified elsewhere in this permit.

### B. Changes to Plans and Specifications:

The owner or operator shall amend this permit or amendment prior to startup of the equipment if:

- (1) Any changes are made to the final plans and specifications submitted for the proposed project; or
- (2) This permit becomes void.

Changes to the final plans and specification shall include changes to plans and specifications for permitted equipment and control equipment and the specified operation thereof.

### C. Amended Permits:

The owner or operator may continue to act under the provisions of the previous permit for the affected emission unit(s) and emission point, together with any previous amendment to the permit, until one of the following conditions occurs:

- (1) The proposed project authorized by this amendment is completed as it affects the emission unit(s) and emission point permitted herein; or
- (2) This current amendment becomes void.

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## 11. Excess Emissions

Per 567 IAC 24.1(1), excess emissions during a period of startup, shutdown, or cleaning of control equipment are not a violation of the emission standard if it is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions except when another regulation applicable to the unit or process provides otherwise. Cleaning of control equipment, which does not require the shutdown of process equipment, shall be limited to one (1) six-minute period per one (1) hour period.

An incident of excess emissions other than the above is a violation and may be subject to criminal penalties according to Iowa Code 455B.146A. If excess emissions are occurring, either the control equipment causing the excess shall be repaired in an expeditious manner, or the process generating the emissions shall be shutdown within a reasonable period of time, as specified in 567 IAC 24.1.

An incident of excess emissions shall be orally reported by telephone, electronic mail or in person to the appropriate field office within eight (8) hours of, or at the start of, the first working day following the onset of the incident (See Permit Condition 8.B.1). A written report of an incident of excess emissions shall be submitted as a follow-up to all required initial reports within seven (7) days of the onset of the upset condition (See Permit Condition 12.B.2).

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## 12. Notification, Reporting, and Recordkeeping

- A. The owner or operator shall furnish the Department the following written notifications:
- (1) Per 567 IAC 22.3(3)"b":
    - (a) The date construction, installation, or alteration is initiated postmarked within thirty (30) days following initiation of construction, installation, or alteration;
    - (b) The actual date of startup, postmarked within fifteen (15) days following the start of operation;
  - (2) Per 567 IAC 22.3(3)"f", when portable equipment for which a permit has been issued is to be transferred from one location to another, the Department shall be notified:
    - (a) at least fourteen (14) days before equipment relocation if the equipment will be located in a nonattainment area for the National Ambient Air Quality Standards (NAAQS) or a maintenance area for the NAAQS;
    - (b) at least seven (7) days before equipment relocation.
  - (3) Per 567 IAC 22.3(8), a new owner shall notify the Department of the transfer of equipment ownership within thirty (30) days of the occurrence. The notification shall be mailed to: Air Quality Bureau, Iowa Department of Natural Resources, 7900 Hickman Road, Suite 1, Windsor Heights, IA 50324 and include the following information:
    - The date of ownership change; the name, address, and telephone number of the responsible official, the contact person, and the owner of the equipment both before and after the ownership change; and the construction permit number(s) of the equipment changing ownership.
  - (4) Unless specified per a federal regulation, notification of each compliance test required by Permit Condition 12 shall be done not less than thirty (30) days before the required test or performance evaluation of a continuous emission monitor [567 IAC 25.1(7)]. The notification shall include:
    - the time; the place; the name of the person who will conduct the tests; and other information as required by the Department;If the owner or operator does not provide timely notice to the Department, the Department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with the applicable rules or permit conditions. Upon written request, the Department may allow a notification period of less than thirty (30) days.
- B. The owner or operator shall furnish the Department with the following reports:
- (1) Per 567 IAC 24.1(2), an incident of excess emissions as defined in 567 IAC 20.2 shall be reported within eight (8) hours or at the start of the first working day following the onset of the incident. The report may be made by electronic mail, in person or by telephone.
  - (2) Per 567 IAC 24.1(3), a written report of an incident of excess emissions as defined in 567 IAC 20.2 shall be submitted as a follow-up to all required initial reports to the Department within seven (7) days of the onset of the upset condition.
  - (3) Operation of this emission unit(s) or control equipment outside of those operating parameters specified in Permit Condition 14 in accordance to the schedule set forth in 567 IAC 24.1.
  - (4) Per 567 IAC 25.1(6), the owner or operator of any facility required to install a continuous monitoring system or systems shall provide quarterly reports to the Director, no later than thirty (30) calendar days following the end of the calendar quarter, on forms provided by the Director.
  - (5) Per 567 IAC 25.1(7), a written compliance demonstration report for each compliance testing event, whether successful or not, postmarked not later than six (6) weeks after the completion of the test period unless other regulations provide for other notification requirements. In that case, the more stringent reporting requirement shall be met;
- C. All data, records, reports, documentation, construction plans, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives, for a minimum of two (2) years from the date of recording unless otherwise required by another applicable law (i.e. NSPS, NESHAP, etc.)
- D. The owner or operator shall send correspondence regarding this permit to: Air Quality Bureau, Iowa Department of Natural Resources, 7900 Hickman Road, Suite 1, Windsor Heights, IA 50324, Telephone: (515) 725-9549, Fax: (515) 725-9501. Information should be sent to the attention of the following individuals based on the type of information being submitted: Construction Permit Supervisor (for permit correspondence), Stack Testing Coordinator (stack testing correspondence), and the Compliance Unit Supervisor and DNR Field Office @ ADDRESS reports and notifications should be sent to.
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### **13. Appeal Rights**

All conditions within an original permit may be appealed, subject to the appeal rights set forth in 561 IAC Chapter 7. Amended conditions within a permit amendment may be appealed, subject to the appeal rights set forth in 561 IAC Chapter 7. In permit amendments, all provisions of the original permit remain in full force and effect unless they are specifically changed by the permit amendment. The previous, unchanged permit provisions are included in the amendment for your convenience only and are unappealable.

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**END OF PERMIT**

SAMPLE