Public Health
Prevent. Promote. Protect.
Linn County, Iowa

Air Quality Construction Permit

	Authorization to Install	Permit to Operate
Permit Number:	7047	
Issuance Date:	6/26/17	
Expiration Date:	12/31/18	Annual Renewal

Plant Number: 00044

Company: City of Cedar Rapids Water Pollution Control Facility

Contact Person:
Michael A. Kuntz
Utilities Environmental Manager

(319) 286-5282
mikek2@cedar-rapids.org

7525 Bertram Road SE
Cedar Rapids, IA 52403

Responsible Party:
Michael A. Kuntz
Utilities Environmental Manager

(319) 286-5282

7525 Bertram Road SE
Cedar Rapids, IA 52403

Permitted Equipment

Emission Point ID: 012

Emission Unit(s) and Control Equipment:

See Condition 3 of this permit for a full list of emission units associated with this emission point.

Equipment Location: 7525 Bertram Road SE
Cedar Rapids, IA 52403

Issuance of this permit 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.

Project Number	Project Description	Stack Testing
2402	Original permit – new source	Yes

Shane Dodge

Under the Direction of the
Air Pollution Control Officer

[JAK]

PERMIT CONDITIONS

1. Emission Limits

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:

Pollutant	lb/hr[1]	tons/yr[2]	Other Limits	Reference/Basis
Hydrogen Sulfide (H_2S)	NA	9.4[3]	NA	Limit to PTE

[1] The emission limit is expressed as the average of three (3) runs.
[2] The emission limit is based on a twelve (12) month rolling total.
[3] This limit includes emissions from EP012 and EP019.

2. Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
H_2S	Stack test	Initial, Periodic[1,2]	1 hour	40 CFR 60, Appendix A, Method 15

[1] Stack testing is required after each biotrickling filter media exchange and every five (5) years thereafter. An exchange of the biotrickling filter media will require an initial compliance demonstration and reset the periodic testing requirement of this permit.
[2] Biotrickling Filter #2 (EP012) and Solids Handling Odorous Air (EP019) are permitted under four operational scenarios: (1) odorous air treatment is evenly split between EP012 and EP019; (2) all odorous air is exhausted through EP012; (3) all odorous air is exhausted through EP019; and (4), most odorous air is exhausted through EP012 and only odorous air from the sludge storage tank (EU300-19) is exhausted through EP019. Engineering estimates indicate that hydrogen sulfide emissions from EP012 should be similar under operational scenarios 1, 2, and 4; however, under operational scenario 3, no hydrogen sulfide is expected to be emitted from EP012. Therefore, as engineering estimates for EP019 indicate the highest emissions from that emission point under scenario 4, stack testing to demonstrate compliance with the hydrogen sulfide emission limit shall be completed while the biotrickling filter is operating under scenario 4 at the same time as the EP019 compliance demonstration test.

If an initial stack test is specified in the "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.
- Within ninety (90) days of the issuance of this permit if there is no physical modification to any emission units or control equipment.

If any additional stack testing beyond an initial test (i.e. quarterly, semi-annual, annual, etc.) is required in "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 as specified in the "Compliance Demonstration Table." See Conditions 12.A.(4) and 12.B.(5) for notification and reporting requirements.

If stack testing is required, the owner or the owner's authorized agent shall use the test method and run time listed in the "Compliance Demonstration Table" 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. Compliance Demonstration(s) (Continued)

Per LCCO 10.17(7)"a", at the Department's request, a pretest meeting shall be held not later than five (5) days before the owner or operator conducts the compliance demonstration. A testing protocol shall be submitted to the Department no later than fifteen (15) days before the owner or operator conducts the compliance demonstration. Representatives from the Department shall attend this meeting, along with the owner and the testing firm, if any. It shall be the responsibility of the owner to coordinate and schedule the pretest meeting. A representative of the Department shall be allowed to witness the test(s). The Department shall reserve the right to impose additional, different, or more detailed testing requirements.

The owner shall be responsible for the installation and maintenance of test ports. The unit(s) being sampled shall be operated in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which this unit(s) will be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the Department that this unit(s) has been physically altered so that capacity cannot be exceeded, or the Department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the Department to determine whether this unit(s) is in compliance.

3. Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Parameter	Value
Stack Height (feet from the ground)	42.9
Discharge Style	Vertical, unobstructed
Stack Outlet Dimensions (inches)	48
Exhaust Temperature (°F)	Ambient
Exhaust Flowrate (acfm)	25,000

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Full List of Emission Units Associated with this Emission Point

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
300-3	Centrifuge #1 Centrate	250 gpm 3 dry tons/hr	Biotrickling filter (CE012-1)
300-4	Centrifuge #1 Drop Hood		
300-5	Centrifuge #2 Centrate		
300-6	Centrifuge #2 Drop Hood		
300-7	Centrifuge Mezzanine (South)	2,100 cfm	
300-8	Centrifuge Mezzanine (North)		
300-9	Solids Dewatering Building Operating Floor	2,000 cfm	
300-10	Grit Room Exhaust	3,400 cfm	
300-11	Stair Screen	3.6 MGD	
300-12	Grit Hopper	Screw – 40 ft^3/hr Conveyor – 200 ft^3/hr Blower – 750 cfm	
300-13	Solids Dewatering Building Manhole	100 cfm	
300-14	Incinerator Manhole	1,500 cfm	
300-15	High Pressure Pump #1	150 gpm	

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
300-16	High Pressure Pump #2		
300-17	High Pressure Pump #3		
300-18	High Pressure Pump #4		
300-19	Storage Tank	2,835,888 gallons	
300-20	Blend Tank #1	264,231 gallons	
300-21	Blend Tank #2	264,231 gallons	
300-22	Belt Filter Press #1 (East)	140 gpm @ 1.5-3%	Biotrickling filter (CE012-1)
300-23	Belt Filter Press #2 (West)		

4. Federal Standards

A. New Source Performance Standards (NSPS):
These emission units are not subject to any NSPS subparts at this time as there are no applicable subparts for their source category.

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):
These emission units are not subject to any NESHAP subparts at this time as there are no applicable subparts for their source category.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

5. Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

A. The biotrickling filter (CE012-1) shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment associated with this emission point.
B. The normal operating pH range for the biotrickling filter (CE012-1) shall be maintained between 2 and 2.5 S.U. The owner or operator shall monitor and record the pH in the biotrickling filter on a weekly basis.
C. Wash cycles in the biotrickling filter (CE012-1) shall be performed at a minimum of once every two hours. The owner or operator shall monitor and record the wash cycle times.

6. Continuous Emission Monitoring Systems (CEMS)

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

7. Department Review

This permit is issued under the authority of Linn County Code of Ordinances (LCCO) 10.5. The proposed equipment has been evaluated for conformance with LCCO Chapter 10, the 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.

7. Department Review (Continued)

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 Condition 12.A.(2) for notification requirements for relocating portable equipment (LCCO 10.5(6)"a" and "b").

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.

The permit or amendment shall become void if the construction or implementation of the proposed project, as it affects each emission point permitted herein, is not completed within ninety (90) days of the expiration date. If, after this time, a permit to operate has not been obtained, the said equipment shall be shut down and not operated until such time as the Air Pollution Control Officer grants a permit to operate the equipment. Extensions of the ninety (90) day adjustment period may be granted by the Air Pollution Control Officer for good cause.

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.

11. Excess Emissions

Per LCCO 10.14(1)"a", 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 LCCO 10.24(8). 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 LCCO 10.14.

An incident of excess emissions shall be orally reported by telephone, electronic mail or in person within eight (8) hours of, or at the start of, the first working day following the onset of the incident [See Permit Condition 12.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)].

12. Notification, Reporting, and Recordkeeping

A. The owner or operator shall furnish the Department the following written notifications:
   (1) Start of Construction Notice / Equipment Start-up Notice
      (a) The date construction or modification is initiated postmarked within thirty (30) days following initiation of construction or modification.
      (b) The actual date of startup, postmarked within fifteen (15) days following the start of operation.
   (2) Per LCCO 10.5(6) 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 LCCO 10.5(6)"c", a new owner shall notify the Department of the transfer of equipment ownership within thirty (30) days of the occurrence. The notification shall 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 Permit to Operate number(s) of the equipment changing ownership.
   (4) Unless specified per a federal regulation, the owner or the owner's authorized agent shall notify the Department in writing not less than fifteen (15) days before a required test or performance evaluation of a continuous emission monitor [LCCO 10.17(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 fifteen (15) days.

B. The owner or operator shall furnish the Department with the following reports:
   (1) Per LCCO 10.14(1)"b", an incident of excess emissions as defined in LCCO 10.2 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 LCCO 10.14(1)"c", a written report of an incident of excess emissions as defined in LCCO 10.2 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 5 in accordance to the schedule set forth in LCCO 10.14.

12. Notification, Reporting, and Recordkeeping (Continued)

(4) Per LCCO 10.17(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 LCCO 10.17(7)"a", 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 five (5) years from the date of recording unless otherwise required by another applicable law (i.e. NSPS, NESHAP, etc.)

D. Information regarding this permit including change in ownership and permit correspondence should be sent to the following address:

Air Quality Division
Linn County Public Health
1240 26th Avenue Ct. SW
Cedar Rapids, IA 52404
Telephone: (319) 892-6000; Fax: (319) 892-6099

E. Information regarding this permit including stack testing correspondence, and reports and notifications should be sent to the address listed in D. or the following email address:

ComplianceReporting-Air@linncounty.org

13. Permit History

Project Number	Permit No. (ATI / PTO)	Description	Date (ATI / PTO)	Stack Testing

END OF PERMIT

Public Health
Prevent. Promote. Protect.
Linn County, Iowa

Air Quality Construction Permit

	Authorization to Install	Permit to Operate
Permit Number:	7048	
Issuance Date:	6/26/17	
Expiration Date:	12/31/18	Annual Renewal

Plant Number: 00044

Company: City of Cedar Rapids Water Pollution Control Facility

Contact Person:
Michael A. Kuntz
Utilities Environmental Manager

(319) 286-5282
mikek2@cedar-rapids.org

7525 Bertram Road SE
Cedar Rapids, IA 52403

Responsible Party:
Michael A. Kuntz
Utilities Environmental Manager

(319) 286-5282

7525 Bertram Road SE
Cedar Rapids, IA 52403

Permitted Equipment

Emission Point ID: 019

Emission Unit(s) and Control Equipment:

See Condition 3 of this permit for a full list of emission units associated with this emission point.

Equipment Location: 7525 Bertram Road SE
Cedar Rapids, IA 52403

Issuance of this permit 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.

Project Number	Project Description	Stack Testing
2402	Remove alternative control equipment CE018-A2 and CE018-B2 and update the emission units associated with this emission point	Yes

Shane Dodge

Under the Direction of the
Air Pollution Control Officer

[JAK]

PERMIT CONDITIONS

1. Emission Limits

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:

Pollutant	lb/hr[1]	tons/yr[2]	Other Limits	Reference/Basis
Hydrogen Sulfide (H_2S)	NA	9.4[3]	9 ppm_v[4]	Limit PTE

[1] The emission limit is expressed as the average of three (3) runs.
[2] The emission limit is based on a twelve (12) month rolling total.
[3] This limit includes emissions from EP012 and EP019.
[4] This emission limit is based on a twelve (12) month rolling average.

2. Compliance Demonstration(s)

Compliance Demonstration Table

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
H_2S	Stack test	Initial, Scenario 4[1]	1 hour	40 CFR 60, Appendix A, Method 15

[1] Solids Handling Odorous Air (EP019) and Biotrickling Filter #2 (EP012) are permitted under four operational scenarios: (1) odorous air treatment is evenly split between EP012 and EP019; (2) all odorous air is exhausted through EP012; (3) all odorous air is exhausted through EP019; and (4), most odorous air is exhausted through EP012 and only odorous air from the sludge storage tank (EU300-19) is exhausted through EP019. Engineering estimates predict scenario 4 as the "worst-case" scenario for hydrogen sulfide emissions from EP019; therefore, testing is required while EP019 is operating under scenario 4. This test shall be performed at the same time as the EP012 compliance demonstration test.

If an initial stack test is specified in the "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.
- Within ninety (90) days of the issuance of this permit if there is no physical modification to any emission units or control equipment.

If any additional stack testing beyond an initial test (i.e. quarterly, semi-annual, annual, etc.) is required in "Compliance Demonstration Table," the owner or the owner's authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 as specified in the "Compliance Demonstration Table." See Conditions 12.A.(4) and 12.B.(5) for notification and reporting requirements.

If stack testing is required, the owner or the owner's authorized agent shall use the test method and run time listed in the "Compliance Demonstration Table" 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. Compliance Demonstration(s) (Continued)

Per LCCO 10.17(7)"a", at the Department's request, a pretest meeting shall be held not later than five (5) days before the owner or operator conducts the compliance demonstration. A testing protocol shall be submitted to the Department no later than fifteen (15) days before the owner or operator conducts the compliance demonstration. Representatives from the Department shall attend this meeting, along with the owner and the testing firm, if any. It shall be the responsibility of the owner to coordinate and schedule the pretest meeting. A representative of the Department shall be allowed to witness the test(s). The Department shall reserve the right to impose additional, different, or more detailed testing requirements.

The owner shall be responsible for the installation and maintenance of test ports. The unit(s) being sampled shall be operated in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which this unit(s) will be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the Department that this unit(s) has been physically altered so that capacity cannot be exceeded, or the Department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the Department to determine whether this unit(s) is in compliance.

3. Emission Point Characteristics

This emission point shall conform to the specifications listed below:

Parameter	Value
Stack Height (feet from the ground)	58
Discharge Style	Vertical, unobstructed
Stack Outlet Dimensions (inches)	54
Exhaust Temperature (°F)	40-150
Exhaust Flowrate (acfm)	25,000

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Full List of Emission Units Associated with this Emission Point

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
300-3	Centrifuge #1 Centrate	250 gpm 3 dry tons/hr	Wet chemical scrubber (CE019-1)
300-4	Centrifuge #1 Drop Hood		
300-5	Centrifuge #2 Centrate		
300-6	Centrifuge #2 Drop Hood		
300-7	Centrifuge Mezzanine (South)	2,100 cfm	
300-8	Centrifuge Mezzanine (North)		
300-9	Solids Dewatering Building Operating Floor	2,000 cfm	
300-10	Grit Room Exhaust	3,400 cfm	
300-11	Stair Screen	3.6 MGD	
300-12	Grit Hopper	Screw – 40 ft^3/hr Conveyor – 200 ft^3/hr Blower – 750 cfm	
300-13	Solids Dewatering Building Manhole	100 cfm	
300-14	Incinerator Manhole	1,500 cfm	
300-15	High Pressure Pump #1	150 gpm	

EU ID	Description	Maximum Rated Capacity	Control Equipment Description and ID
300-16	High Pressure Pump #2	150 gpm	Wet chemical scrubber (CE019-1)
300-17	High Pressure Pump #3		
300-18	High Pressure Pump #4		
300-19	Storage Tank	2,835,888 gallons	
300-20	Blend Tank #1	264,231 gallons	
300-21	Blend Tank #2	264,231 gallons	
300-22	Belt Filter Press #1 (East)	140 gpm @ 1.5-3%	
300-23	Belt Filter Press #2 (West)		

4. Federal Standards

A. New Source Performance Standards (NSPS):
These emission units are not subject to any NSPS subparts at this time as there are no applicable subparts for their source category.

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):
These emission units are not subject to any NESHAP subparts at this time as there are no applicable subparts for their source category.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

5. Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

A. The wet chemical scrubber (CE019-1) shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment associated with this emission point.
B. The normal operating pH in the wet chemical scrubber (CE019-1) shall be maintained greater than 8.0 S.U. The owner or operator shall monitor and record the pH in the wet chemical scrubber on a weekly basis.
C. The twelve (12) month rolling average outlet concentration of hydrogen sulfide (H_2S) shall not exceed 9 ppmv. The owner or operator shall monitor and record the outlet concentration of H_2S on a weekly basis. The owner or operator shall calculate the monthly average from the weekly outlet concentrations of H_2S. The twelve (12) month rolling average shall be calculated from the monthly average outlet concentrations of H_2S.

6. Continuous Emission Monitoring Systems (CEMS)

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

7. Department Review

This permit is issued under the authority of Linn County Code of Ordinances (LCCO) 10.5. The proposed equipment has been evaluated for conformance with LCCO Chapter 10, the 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 Condition 12.A.(2) for notification requirements for relocating portable equipment (LCCO 10.5(6)"a" and "b").

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.

The permit or amendment shall become void if the construction or implementation of the proposed project, as it affects each emission point permitted herein, is not completed within ninety (90) days of the expiration date. If, after this time, a permit to operate has not been obtained, the said equipment shall be shut down and not operated until such time as the Air Pollution Control Officer grants a permit to operate the equipment. Extensions of the ninety (90) day adjustment period may be granted by the Air Pollution Control Officer for good cause.

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.

10. Construction (Continued)

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.

11. Excess Emissions

Per LCCO 10.14(1)"a", 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 LCCO 10.24(8). 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 LCCO 10.14.

An incident of excess emissions shall be orally reported by telephone, electronic mail or in person within eight (8) hours of, or at the start of, the first working day following the onset of the incident [See Permit Condition 12.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)].

12. Notification, Reporting, and Recordkeeping

A. The owner or operator shall furnish the Department the following written notifications:
(1) Start of Construction Notice / Equipment Start-up Notice
(a) The date construction or modification is initiated postmarked within thirty (30) days following initiation of construction or modification.
(b) The actual date of startup, postmarked within fifteen (15) days following the start of operation.
(2) Per LCCO 10.5(6) 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 LCCO 10.5(6)"c", a new owner shall notify the Department of the transfer of equipment ownership within thirty (30) days of the occurrence. The notification shall 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 Permit to Operate number(s) of the equipment changing ownership.

(4) Unless specified per a federal regulation, the owner or the owner's authorized agent shall notify the Department in writing not less than fifteen (15) days before a required test or performance evaluation of a continuous emission monitor [LCCO 10.17(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 fifteen (15) days.

12. Notification, Reporting, and Recordkeeping (Continued)

B. The owner or operator shall furnish the Department with the following reports:
   (1) Per LCCO 10.14(1)"b", an incident of excess emissions as defined in LCCO 10.2 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 LCCO 10.14(1)"c", a written report of an incident of excess emissions as defined in LCCO 10.2 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 5 in accordance to the schedule set forth in LCCO 10.14.
   (4) Per LCCO 10.17(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 LCCO 10.17(7)"a", 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 five (5) years from the date of recording unless otherwise required by another applicable law (i.e. NSPS, NESHAP, etc.)

D. Information regarding this permit including change in ownership and permit correspondence should be sent to the following address:

Air Quality Division
Linn County Public Health
1240 26th Avenue Ct. SW
Cedar Rapids, IA 52404
Telephone: (319) 892-6000; Fax: (319) 892-6099

E. Information regarding this permit including stack testing correspondence, and reports and notifications should be sent to the address listed in D. or the following email address:

ComplianceReporting-Air@linncounty.org

13. Permit History

Project Number	Permit No. (ATI / PTO)	Description	Date (ATI / PTO)	Stack Testing
--	4533 / 4842	Original permit – new source	8/11/03 / 9/21/05	No
--	5738 / 5407	Changed wording in Section 4 to reflect recent changes made to EP018 and EP020 permits and added flow path for EP019	4/3/09 / 5/1/09	No
--	5738 / 5407R1	Changed name of the emission unit (EU019-1) and revised pH limit from less than 10.5 to greater than 8.0 per facility request (R1)	4/3/09 / 7/10/09	No
1900	5738 / 5407R2	Changed emission characteristics, added emission units, and updated process flow diagram per facility request (R2)	4/3/09 / 6/6/13	No
1900	5738 / 5407R3	Changed per CRWPCF email comments (R3)	4/3/09 / 7/25/13	No

END OF PERMIT