

FINAL DRAFT/PROPOSED CAAPP PERMIT
The Prince Manufacturing Company
I.D. No.: 95120064
Application No.: 001815AAB
July 23, 2002

217/782-2113

TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT¹

PERMITTEE

The Prince Manufacturing Company
Attn: Gail M. Dixon, Regulatory Manager
One Prince Plaza
Quincy, Illinois 62301

<u>Application No.:</u> 95120064	<u>I.D. No.:</u> 001815AAB
<u>Applicant's Designation:</u>	<u>Date Received:</u> December 6, 1995
<u>Operation of:</u> Mineral Products Processing	
<u>Date Issued:</u> TO BE DETERMINED	<u>Expiration Date</u> ² : DATE
<u>Source Location:</u> One Prince Plaza, Quincy, Adams County	
<u>Responsible Official:</u> Charles L. Davis, Vice President	

This permit is hereby granted to the above-designated Permittee to OPERATE a mineral products processing facility, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact David Hulskotter at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:DWH:jar

cc: Illinois EPA, FOS, Region 2

¹ This permit may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the CAA and regulations promulgated thereunder, including 40 CFR 52.21 - federal PSD and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within this permit.

² Except as provided in Condition 8.7 of this permit.

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- 7.8 Screeners and Associated Equipment
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1.0 SOURCE IDENTIFICATION

1.1 Source

The Prince Manufacturing Company
One Prince Plaza
Quincy, Illinois 62301
217/222-8854

I.D. No.: 001815AAB
Standard Industrial Classification: 2816, Chemicals and Allied
Products

1.2 Owner/Parent Company

The Prince Manufacturing Company
One Prince Plaza
Quincy, Illinois 62301

1.3 Operator

The Prince Manufacturing Company
One Prince Plaza
Quincy, Illinois 62301

Gail M. Dixon, Regulatory Manager
217/222-8854

1.4 General Source Description

The source is located at One Prince Plaza in Quincy. Coarse mineral products are being processed. Processes occurring are bagging, conveying, crushing, drying, loading, milling and screening.

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2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
kW	kilowatts
lb	pound
mmBtu	Million British thermal units
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SO ₂	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material

3.0 INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

- 3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

- 3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

S_eS₂ Blending

- 3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].

Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(10)].

Storage tanks of any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating

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oil, or residual fuel oils [35 IAC 201.210(a)(11)].

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.2.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182, 218.182, or 219.182.
- 3.2.2 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.
- 3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.3 Addition of Insignificant Activities

- 3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).
- 3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.
- 3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-16	Transfer to Dryer 2 Storage South Wall	None	1975
EU-5	Transfer to Apron Feeder - Dryer 2	None	1975
EU-6	Conveyor to Dryer 2 (Enclosed)	None	1975
EU-7	Dryer #2	Dryer #2 Dust Collector	1975
EU-8	Conveyor to Jaw Crusher - Dryer 2 (Enclosed)	None	1975
EU-9	Jaw Crusher - Dryer 2 (Enclosed)	None	1975
EU-10	Screw Conveyor to Elevator of Floor Hopper - Dryer 2 (Enclosed)	None	1975
EU-11	Floor Hopper - Dryer 2	Floor Hopper Dust Collector	1975
EU-12	Jaw Crusher Leg - Dryer 2 (Enclosed)	None	1975
EU-13	Transfer to Dried M _n O ₂ Storage - Carus Building	None	1975
EU-14	Gyro Crusher - Dryer 2 (Enclosed)	None	1975
EU-15	Loader Transfer to Intermediate Storage - Dryer 2	None	1975
EU-41	Bagger Room - Mill #1	None	1975
EU-44	Loader Transfer to Feed Hopper - Mill #1	None	1975
EU-45	Screw Conveyor from Feed Hopper to Leg - Mill #1 (Enclosed)	None	1975
EU-46	Leg to Raw Bin - Mill #1 (Enclosed)	None	1975
EU-47	Williams Mill #1	Mill #1 Dust Collector	1975
EU-93	Conveyor to Rail/Truck Loading - Mill #1 (Enclosed)	None	1975
EU-97	Filter Conveyor to Raw Bin (Enclosed)	None	1975
EU-98	Rail and Truck Loading	None	1975
EU-100	Loader Mixing of 5200 Product - Mill #2	None	1975

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EU-48	Loader Transfer to Feed Hopper - Mill #2	None	1975
EU-49	Screw Conveyor to Leg - Mill #2 (Enclosed)	None	1975
EU-50	Leg to Raw Bin - Mill #2 (Enclosed)	None	1975
Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-51	Raymond Mill #2	Mill #2 Dust Collector	1975
EU-52	Filter Conveyor to Raw Bin (Enclosed) - Mill #2	None	1975
EU-53	Bagger Room - Mill #2	None	1975
EU-54	Conveyor to Bulk Tank - Mill #2 (Enclosed)	None	1975
EU-55	Conveyor to Rail/Truck Loading - Mill #2	None	1975
EU-56	Rail/Truck Loading - Mill #2 Carus	None	1975
EU-76	Pneumatic Transfer to Bin - Nucor	4981 System Bin Vent Filter	1994
EU-77	Conveyor to Hammer Mill - Nucor	4981 System Dust Collector	1994
EU-78	Hammer Mill - Nucor	4981 System Dust Collector	1994
EU-99	Nucor Bagger	4981 System Dust Collector	1994
EU-17	Dry Ore Transfer - Calciner	None	1990
EU-18	Petroleum Coke - Dry Ore Mixing - Calciner	None	1990
EU-19	Loading Cage Mill - Calciner	None	1990
EU-20	Screw Conveyor to Cage Mill - Calciner	Cage Mill Dust Collector	1990
EU-21	Cage Mill - Calciner	Cage Mill Dust Collector	1990
EU-22	Screw Conveyor to Leg - Calciner (Enclosed)	None	1990
EU-23	Leg to North and South Storage Tanks - Calciner	Cage Mill Dust Collector	1990
EU-24	Loader Transfer to Alternate Feed Hopper - Calciner	None	1990
EU-25	Leg to Reduction Furnace Feed Hopper from North Tank - Calciner (Enclosed)	None	1990

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EU-26	Conveyor to Reduction Furnace Feed Hopper from North Tank - Calciner (Enclosed)	None	1990
EU-27	Screw Conveyor from Hopper to Reduction Furnace - Calciner	Calciner Dust Collector	1990
EU-28	Calciner	Calciner Dust Collector	1990
EU-29	Cooling Tube - Calciner	Calciner Dust Collector	1990
EU-30	Screw Conveyor to Discharge Hopper Screw - Calciner (Enclosed)	None	1990

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Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-31	Discharge Hopper Screw - Calciner (Enclosed)	None	1990
EU-32	Dust Collector Screw to Discharge Screw - Calciner (Enclosed)	None	1990
EU-33	Loader Transfer to Intermediate Storage Piles - Calciner	None	1990
EU-34	Loader Transfer to Dry Storage - Calciner	None	1990
EU-101	D-Tank Loadout Leg - Dryer #1 (Enclosed)	None	1975
EU-102	Truck and Railcar Loadout	None	1975
EU-35	Loader Transfer to Dryer #1 from Apron Feeder	None	1975
EU-36	Belt Conveyor to Dryer #1 from Apron Feeder	None	1975
EU-37	Dryer #1	Dryer #1 Dust Collector	1989
EU-38	Screw Conveyor to Leg - Dryer #1 (Enclosed)	None	1975
EU-39	Leg Dryer #1 or 80' Screw Conveyor (Enclosed)	None	1975
EU-40	Transfer to Bagger Bin Mill #1 - Dryer #1 (Enclosed)	None	1975
EU-42	D-Tank Loadout Screw Conveyor - Dryer #1 (Enclosed)	None	1975
EU-43	Transfer to 4-Tank Cluster Mill #1 - Dryer #1 (Enclosed)	None	1975
EU-64	Loader Transfer to Apron Feeder - Mill #3	None	1980
EU-65	Dryer #3 - Mill #3	Dryer #3 Dust Collector	1980
EU-66	Crusher - Mill #3 (Enclosed)	None	1980
EU-67	Raw Holding Bin Leg - Mill #3 (Enclosed)	None	1980
EU-68	Screw Conveyor to Dry Storage - Mill #3 (Enclosed)	None	1980
EU-69	Unloading in Dry Storage - Mill #3	None	1980
EU-70	Loading into Center Hopper -	None	1980

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Emission Unit	Description	Emission Control Equipment	Date Constructed
	Mill #3		
EU-71	Center Hopper Leg - Mill #3 (Enclosed)	None	1980
EU-72	Mill #3	Mill #3 Dust Collector	1980
EU-73	Screw Conveyor to Microsizer Bin - Mill #3 (Enclosed)	None	1980
EU-74	Fine Pneumatic Transfer to Bagger Bin - Mill #3	Fine Bagger Bin Filter	1980
EU-75	Bagger Room - Mill #3	None	1980
EU-94	Storage Piles at Dryer/Mill #3 Load-In (Outside)	None	1980
EU-95	Apron Feeder Transfer to Dryer #3 - Mill #3	Dryer #3 Dust Collector	1980
EU-96	Course Pneumatic Transfer to Bagger Bin - Mill #3	Mill #3 Dust Collector	1980
EU-103	Air Separator - Screener	Air Separator Bag Filter	1990
EU-57	Feed Hopper for MV Screener	None	1990
EU-58	Screw Conveyor to Leg - MV Screener (Enclosed)	None	1990
EU-59	Leg - Screeners (Enclosed)	None	1990
EU-60	Sweco Screener	Sweco Dust Collector	1990
EU-61	Multi-Vibe Screener	Sweco Dust Collector	1990
EU-62	Bulk Bagging #5 Screeners	None	1990
EU-79	Load In-Salt	None	1974
EU-80	Storage-Salt	None	1974
EU-1	Truck and Rail Ore Unloading	None	1974
EU-2	Ore Storage Piles	None	1974

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of particulate matter and HAP emissions.

5.2 Applicable Regulations

5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.

5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:

- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

Compliance with this requirement is considered to be assured by the inherent nature of operations at this source, as demonstrated by historical operation.

- b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

5.2.3 Ozone Depleting Substances

The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service,

repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.2.4 Risk Management Plan

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the Accidental Release Prevention regulations in 40 CFR Part 68, then the owner or operator shall submit [40 CFR 68.215(a)(2)(i) and (ii)]:

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan (RMP), as part of the annual compliance certification required by 40 CFR Part 70 or 71.

- 5.2.5 a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by 40 CFR Part 70 or 71.

- b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate

compliance with all applicable requirements of any potentially applicable regulation which was promulgated after the date issued of this permit.

5.2.6 Episode Action Plan

- a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If a change occurs at the source which requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.
- d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:
 - i. Illinois EPA, Compliance Section; and
 - ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or
 - iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

5.2.7 CAM Plan

This stationary source has a pollutant-specific emissions unit that is subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources. The source must submit a CAM plan for each affected

pollutant-specific emissions unit upon application for renewal of the initial CAAPP permit, or upon a significant modification to the CAAPP permit for the construction or modification of a large pollutant-specific emissions unit which has the potential post-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

5.3 Non-Applicability of Regulations of Concern

N/A

5.4 Source-Wide Operational and Production Limits and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

None

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.5.1) are set for the purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	4.065
Sulfur Dioxide (SO ₂)	0.305
Particulate Matter (PM)	220.00
Nitrogen Oxides (NO _x)	50.808
HAP, not included in VOM or PM	-----
Total	275.25

5.5.2 Emissions of Hazardous Air Pollutants

Source-wide emission limitations for HAPs as listed in Section 112(b) of the CAA are not set. This source is considered to be a major source of HAPs.

5.5.3 Other Source-Wide Emission Limitations

N/A

5.6 General Recordkeeping Requirements

5.6.1 Emission Records

The Permittee shall maintain records of the following items for the source to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

Total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions) of this permit, including HAP emissions.

5.6.2 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.
- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the source with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

5.7.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year, including HAP emissions.

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating VARIABLE Emissions

Compliance with the source-wide emission limits specified in Condition 5.5 shall be based on the recordkeeping and reporting requirements of this permit, and compliance

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procedures in Section 7 (Unit Specific Conditions) of this permit.

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6.0 NOT APPLICABLE TO THIS PERMIT

7.0 UNIT SPECIFIC CONDITIONS

7.1 Dryer #2 - Processing Coarse Mineral Products

7.1.1 Description

Coarse mineral products consisting of manganese dioxide and chromox are being processed. Drying, crushing, and conveying are the operations taking place.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-16	Transfer to Dryer 2 Storage South Wall	None
EU-5	Transfer to Apron Feeder - Dryer 2	None
EU-6	Conveyor to Dryer 2 (Enclosed)	None
EU-7	Dryer #2	Dryer #2 Dust Collector
EU-8	Conveyor to Jaw Crusher - Dryer 2 (Enclosed)	None
EU-9	Jaw Crusher - Dryer 2 (Enclosed)	None
EU-10	Screw Conveyor to Elevator of Floor Hopper - Dryer 2 (Enclosed)	None
EU-11	Floor Hopper - Dryer 2	Floor Hopper Dust Collector
EU-12	Jaw Crusher Leg - Dryer 2 (Enclosed)	None
EU-13	Transfer to Dried MnO ₂ Storage - Carus Building	None
EU-14	Gyro Crusher - Dryer 2 (Enclosed)	None
EU-15	Loader Transfer to Intermediate Storage - Dryer 2	None

7.1.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.1.2.

- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

- 1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- 2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

- d. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm [35 IAC 214.301].
- e. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit. If no odor nuisance exists this limitation shall apply only to photochemically reactive material [35 IAC 215.301].

7.1.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because construction was commenced prior to April 24, 1982.

7.1.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collectors including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.1.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

N/A

7.1.7 Testing Requirements

N/A

7.1.8 Monitoring Requirements

N/A

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

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- a. Monthly and annual throughput of manganese dioxide ore in tons.
- b. Monthly and annual emissions.
- c. Monthly and annual natural gas usage.

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.12 Compliance Procedures

- a. Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-16	Product Transfer	0.12	-----	---
EU-5	Product Transfer	0.01	High Moisture	---
EU-6	Conveyor	0.01	Enclosed and High Moisture	99%
EU-7	Dryer	19.7	Dust Collector	99%
EU-8	Conveyor	0.12	Enclosed	99%
EU-9	Crusher	1.2	Enclosed	99%
EU-10	Conveyor	0.12	-----	---
EU-11	Hopper	0.12	Dust Collector	99%
EU-12	Leg	0.12	Enclosed	99%
EU-13	Product Transfer	0.12	-----	---
EU-14	Gyro Crusher	1.2	Enclosed	99%
EU-15	Product Transfer	0.12	-----	---

Particulate Matter Emissions = Throughput X Emission Factor X (1-Control Efficiency)

These emission factors are from AP-42, Section 11.24 Emission Factors for Metallic Minerals Processing.

- b. Fuel combustion emissions shall be calculated based on the following:

<u>Pollutant</u>	<u>Natural Gas Emission Factors For Boilers (Lb/10⁶ Ft³)</u>
NO _x	100
PM	7.6
SO ₂	0.6

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VOM

5.5

These are the emission factors for uncontrolled natural gas combustion, Table 1.4-1 and 1.4-2, AP-42, Volume I, Supplement F, March, 1998.

Emissions (lb) = (Natural Gas Consumed, ft³) x (The Appropriate Emission Factor)

7.2 Mill #1 - Milling and Packaging of Coarse Mineral Products

7.2.1 Description

Coarse mineral products consisting of manganese oxide, manganese dioxide, zinc oxide and iron carbonate are being processed. Milling, conveying, packaging and loading are the operations taking place.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-41	Bagger Room - Mill #1	None
EU-44	Loader Transfer to Feed Hopper - Mill #1	None
EU-45	Screw Conveyor from Feed Hopper to Leg - Mill #1 (Enclosed)	None
EU-46	Leg to Raw Bin - Mill #1 (Enclosed)	None
EU-47	Williams Mill #1	Mill #1 Dust Collector
EU-93	Conveyor to Rail/Truck Loading - Mill #1 (Enclosed)	None
EU-97	Filter Conveyor to Raw Bin (Enclosed)	None
EU-98	Rail and Truck Loading	None

7.2.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.2.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

7.2.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because construction was commenced prior to April 24, 1982.

7.2.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collector including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.2.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

N/A

7.2.7 Testing Requirements

N/A

7.2.8 Monitoring Requirements

N/A

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of minerals processed in tons.
- b. Monthly and annual emissions.

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.2.12 Compliance Procedures

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Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-41	Bagging	0.12	-----	---
EU-44	Product Transfer	0.12	-----	---
EU-45	Conveyor	0.12	Enclosed	99%
EU-46	Leg	0.12	Enclosed	99%
EU-47	Mill	28.8	Dust Collector	99%
EU-93	Conveyor	0.12	Enclosed	99%
EU-97	Conveyor	0.12	Enclosed	99%
EU-98	Loading	0.12	-----	---

Particulate Matter Emissions = Throughput X Emission Factor X (1-Control Efficiency)

These emission factors are from AP-42, Section 11.24 Emission Factors for Metallic Minerals Processing.

7.3 Mill #2 - Milling and Packaging of Coarse Mineral Products

7.3.1 Description

Coarse mineral products consisting of manganese dioxide, iron carbonate, 5200 product and chromox are being processed. Milling, conveying, packaging and loading are the operations taking place.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-100	Loader Mixing o 5200 Product - Mill #2	None
EU-48	Loader Transfer to Feed Hopper - Mill #2	None
EU-49	Screw Conveyor to Leg - Mill #2 (Enclosed)	None
EU-50	Leg to Raw Bin - Mill #2 (Enclosed)	None
EU-51	Raymond Mill #2	Mill #2 Dust Collector
EU-52	Filter Conveyor to Raw Bin (Enclosed) Mill 2	None
EU-53	Bagger Room - Mill #2	None
EU-54	Conveyor to Bulk Tank - Mill #2 (Enclosed)	None
EU-55	Conveyor to Rail/Truck Loading - Mill #2	None
EU-56	Rail/Truck Loading - Mill #2 Carus	None

7.3.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.3.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable

emission rates specified by the following equation
[35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

7.3.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because construction was commenced prior to April 24, 1982.

7.3.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collector including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.3.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

N/A

7.3.7 Testing Requirements

N/A

7.3.8 Monitoring Requirements

N/A

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of minerals processed in tons.
- b. Monthly and annual emissions.

7.3.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-100	Loading	0.12	-----	---
EU-48	Loading	0.12	-----	---
EU-49	Conveyor	0.12	Enclosed	99%
EU-50	Leg	0.12	Enclosed	99%
EU-51	Mill	28.8	Dust Collector	99%
EU-52	Conveyor	0.12	Enclosed	99%
EU-53	Bagging	0.12	-----	---
EU-54	Conveyor	0.12	Enclosed	99%
EU-55	Conveyor	0.12	-----	---
EU-56	Loading	0.12	-----	---

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Particulate Matter Emissions = Throughput X Emission
Factor X (1-Control Efficiency)

These emission factors are from AP-42, Section 11.24
Emission Factors for Metallic Minerals Processing.

7.4 Nucor System

7.4.1 Description

Coarse mineral products consisting of maroon iron oxide 4981 are being processed. Milling, bagging and conveying are the operations taking place.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-76	Pneumatic Transfer to Bin - Nucor	4981 System Bin Vent Filter
EU-77	Conveyor to Hammer Mill - Nucor	4981 System Dust Collector
EU-78	Hammer Mill - Nucor	4981 System Dust Collector
EU-99	Nucor Bagger	4981 System Dust Collector

7.4.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.4.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c.
 - i. The affected emission units are subject to a New Source Performance Standard (NSPS) for Metallic Mineral Processing Plants, 40 CFR 60, Subparts A and LL. The Illinois EPA is administrating NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
 - ii. No owner or operator shall cause to be discharged into the atmosphere from an affected emission unit any stack emissions that [40 CFR 60.382]:
 - A. Contain particulate matter in excess of 0.05 grams per dry standard cubic meter.

B. Exhibit greater than 7 percent opacity.

d. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

7.4.4 Non-Applicability of Regulations of Concern

N/A

7.4.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collector including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.4.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

N/A

7.4.7 Testing Requirements

Upon request the owner or operator shall determine compliance with the particulate matter standards of 40 CFR 60.382 as follows [40 CFR 60.386]:

- a. Method 5 or 17 shall be used to determine the particulate matter concentration. The sample volume for each run shall be at least 1.70 dscm (60 dscf). The sampling probe and filter holder of Method 5 may be operated without heaters if the gas stream being sampled is at ambient temperature. For gas streams above ambient temperature, the Method 5 sampling train shall be operated with a probe and filter temperature slightly above the effluent temperature (up to a maximum filter temperature of 121°C (250°F)) in order to prevent water condensation on the filter.
- b. Method 9 and the procedures in 40 CFF 60.11 shall be used to determine opacity from stack emissions and process fugitive emissions. The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed.

7.4.8 Monitoring Requirements

N/A

7.4.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of maroon iron oxide 4981 in tons.
- b. Monthly and annual emissions.
- c. The Permittee shall fulfill applicable recordkeeping requirements of the NPS 40 CFR 60.7.

7.4.10 Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.
- b. The Permittee shall fulfill applicable notification requirements of the NSPS 40 CFR 60.7.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.4.12 Compliance Procedures

Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-76	Product Transfer	0.27	Filter	99%
EU-77	Conveyor	0.12	Dust Collector	99%
EU-78	Hammer Mill	1.2	Dust Collector	99%
EU-99	Bagger	0.12	Dust Collector	99%

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Particulate Matter Emissions = Throughput X Emission
Factor X (1-Control Efficiency)

These emission factors are from AP-42, Section 11.24
Emission Factors for Metallic Minerals Processing.

7.5 Calciner

7.5.1 Description

The calcine process uses a reduction furnace to reduce manganese dioxide to manganese oxide. The calciner has a firing rate of 4 million Btu/hr and burns natural gas. Conveying, milling, cooling and loading of the mineral products is also being done.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-17	Dry Ore Transfer - Calciner	None
EU-18	Petroleum Coke-Dry Ore Mixing - Calciner	None
EU-19	Loading Cage Mill - Calciner	None
EU-20	Screw Conveyor to Cage Mill - Calciner	Cage Mill Dust Collector
EU-21	Cage Mill - Calciner	Cage Mill Dust Collector
EU-22	Screw Conveyor to Leg - Calciner (Enclosed)	None
EU-23	Leg to North and South Storage Tanks - Calciner	Cage Mill Dust Collector
EU-24	Loader Transfer to Alternate Feed Hopper - Calciner	None
EU-25	Leg to Reduction Furnace Feed Hopper - Calciner (Enclosed)	None
EU-26	Conveyor to Reduction Furnace Feed Hopper from North Tank - Calciner (Enclosed)	None
EU-27	Screw Conveyor from Hopper to Reduction Furnace - Calciner	Calciner Dust Collector
EU-28	Calciner	Calciner Dust Collector
EU-29	Cooling Tube - Calciner	Calciner Dust Collector
EU-30	Screw Conveyor to Discharge Hopper Screw - Calciner (Enclosed)	None
EU-31	Discharge Hopper Screw - Calciner (Enclosed)	None
EU-32	Dust Collector Screw to	None

	Discharge Screw - Calciner (Enclosed)	
EU-33	Loader Transfer to Intermediate Storage Piles - Calciner	None
EU-34	Loader Transfer to Dry Storage - Calciner	None

7.5.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.5.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

- 1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- 2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr

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E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

- d. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm [35 IAC 214.301].
- e. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit. If no odor nuisance exists this limitation shall apply only to photochemically reactive material [35 IAC 215.301].

7.5.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because none of the metallic mineral concentrates listed in 40 CFR 60.381 are being processed on the affected emission units.

7.5.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collectors including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.5.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

- a. Emissions and operation of equipment shall not exceed the following limits:

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<u>Item of Equipment</u>	<u>Particulate Matter Emissions</u>	
	<u>(Lbs/Hour)</u>	<u>(Ton/Year)</u>
Calciner (Reduction Furnace)	3.8	12.8

Compliance with annual limits shall be determined from a running total of 12 months of data.

The above limitations were established in Permit 92060038, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

- b. Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Operating Rate</u> <u>(Tons/Hour)</u>	<u>Particulate Matter Emissions</u>	
		<u>(Lbs/Hour)</u>	<u>(Tons/Yr)</u>
Cage Mill	7.0	1.2	0.7

Compliance with annual limits shall be determined from a running total of 12 months of data

The above limitations were established in Permit 90020070, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

7.5.7 Testing Requirements

N/A

7.5.8 Monitoring Requirements

N/A

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of materials in tons.
- b. Monthly and annual emissions.
- c. Monthly and annual natural gas usage.

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Emissions of PM from the affected emission units in excess of the limits specified in Condition 7.5.6 within 30 days of such an occurrence.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.5.12 Compliance Procedures

- a. Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-17	Product Transfer	0.12	-----	---
EU-18	Mixing	0.12	-----	---
EU-19	Loading	0.12	-----	---
EU-20	Conveyor	0.12	Dust Collector	99%
EU-21	Mill	2.7	Dust Collector	99%
EU-22	Conveyor	0.12	Enclosed	99%

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EU-23	Leg	0.12	Dust Collector	99%
EU-24	Product Transfer	0.12	-----	---
EU-25	Leg	0.12	Enclosed	99%
EU-26	Conveyor	0.12	Dust Collector	99%
EU-27	Conveyor	0.12	Dust Collector	99%
EU-28	Calciner	19.7	Dust Collector	99%
EU-29	Cooling Tube	19.7	Dust Collector	99%
EU-30	Conveyor	0.12	Enclosed	99%
EU-31	Hopper	0.12	Enclosed	99%
EU-32	Screw	0.12	Enclosed	99%
EU-33	Product Transfer	0.12	-----	---
EU-34	Product Transfer	0.12	-----	---

These emission factors are from AP-42, Section 11.24
Emission Factors for Metallic Minerals Processing.

- b. Fuel combustion emissions shall be calculated based on the following:

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<u>Pollutant</u>	<u>Natural Gas Emission Factors For Boilers (Lb/10⁶ Ft³)</u>
NO _x	100
PM	7.6
SO ₂	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion, Table 1.4-1 and 1.4-2, AP-42, Volume I, Supplement F, March, 1998.

Emissions (lb) = (Natural Gas Consumed, ft³) x (The Appropriate Emission Factor)

7.6 Dryer #1

7.6.1 Description

Primary drying of bio-2 sand, black iron oxide, and iron carbonate is occurring. Also conveying and product transferring are also being performed.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-101	D- Tank Loadout Leg - Dryer #1 (Enclosed)	None
EU-102	Truck and Railcar Loadout	None
EU-35	Loader Transfer to Dryer #1 from Apron Feeder	None
EU-36	Belt Conveyor to Dryer #1 from Apron Feeder	None
EU-37	Dryer #1	Dryer #1 Dust Collector
EU-38	Screw Conveyor to Leg - Dryer #1 (Enclosed)	None
EU-39	Leg Dryer #1 or 80' Screw Conveyor (Enclosed)	None
EU-40	Transfer to Bagger Bin Mill #1 - Dryer #1 (Enclosed)	None
EU-42	D-Tank Loadout Screw Conveyor - Dryer #1 (Enclosed)	None
EU-43	Transfer to 4-Tank Cluster Mill #1 - Dryer #1 (Enclosed)	None

7.6.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.6.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable

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emission rates specified by the following equation
[35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

- d. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm [35 IAC 214.301].
- e. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit. If no odor nuisance exists this limitation shall apply only to photochemically reactive material [35 IAC 215.301].

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7.6.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because the affected emission units and the original dryer were constructed prior to the applicability date of August 24, 1982. A new dryer replaced the original dryer in 1989, however, this did not cause a modification pursuant to 40 CFR 60.14.

7.6.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collector including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.6.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Operating Rate (Tons/Hour)</u>	<u>Particulate Matter Emissions (Lb/Hr)</u>	<u>(Tons/Year)</u>
Dryer #1	12.0	3.6	2.9

These limits are based on the maximum operating rate. Compliance with annual limits shall be determined from a running total of 12 months of data.

The above limitations were established in permit 90020070, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

7.6.7 Testing Requirements

N/A

7.6.8 Monitoring Requirements

N/A

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of materials in tons.
- b. Monthly and annual emissions.
- c. Monthly and annual natural gas usage.

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.6.12 Compliance Procedures

- a. Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-101	Loadout	0.12	Enclosed	99%
EU-102	Loadout	0.12	-----	---
EU-35	Product Transfer	0.01	High Moisture	---
EU-36	Conveyor	0.01	High Moisture	---
EU-37	Dryer	19.7	Dust Collector	99%
EU-38	Conveyor	0.12	Enclosed	99%
EU-39	Conveyor	0.12	Enclosed	99%
EU-40	Product Transfer	0.12	Enclosed	99%
EU-42	Conveyor	0.12	Enclosed	99%
EU-43	Product Transfer	0.12	Enclosed	99%

Particulate Matter Emissions = Throughput X Emission Factor X (1-Control Efficiency)

These emission factors are from AP-42, Section 11.24 Emission Factors for Metallic Minerals Processing.

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- b. Fuel combustion emissions shall be calculated based on the following:

<u>Pollutant</u>	<u>Natural Gas Emission Factors For Boilers (Lb/10⁶ Ft³)</u>
NO _x	100
PM	7.6
SO ₂	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion, Table 1.4-1 and 1.4-2, AP-42, Volume I, Supplement F, March, 1998.

Emissions (lb) = (Natural Gas Consumed, ft³) x (The Appropriate Emission Factor)

7.7 Mill #3

7.7.1 Description

Red iron oxide is being processed. Loading, drying, milling, crushing and conveying are the operations taking place.

7.7.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-64	Loader Transfer to Apron Feeder - Mill #3	None
EU-65	Dryer #3 - Mill 3	Dryer #3 Dust Collector
EU-66	Crusher - Mill #3 (Enclosed)	None
EU-67	Raw Holding Bin Leg - Mill 3 (Enclosed)	None
EU-68	Screw Conveyor to Dry Storage - Mill #3 (Enclosed)	None
EU-69	Unloading in Dry Storage - Mill #3	None
EU-70	Loading into Center Hopper - Mill #3	None
EU-71	Center Hopper Leg - Mill #3 (Enclosed)	None
EU-72	Mill #3	Mill #3 Dust Collector
EU-73	Screw Conveyor to Microsizer Bin - Mill #3 (Enclosed)	None
EU-74	Fine Pneumatic Transfer to Bagger Bin - Mill #3	Fine Bagger Bin Filter
EU-75	Bagger Room - Mill #3	None
EU-94	Storage Piles at Dryer/Mill #3 Load-In (Outside)	None
EU-95	Apron Feeder Transfer to Dryer #3 - Mill #3	Dryer #3 Dust Collector
EU-96	Coarse Pneumatic Transfer to Bagger Bin - Mill #3	Mill #3 Dust Collector

7.7.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition

7.7.2.

- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

- 1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- 2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

- d. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm [35 IAC 214.301].
- e. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit. If no odor nuisance exists this limitation shall apply only to photochemically reactive material [35 IAC 215.301].

7.7.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because construction was commenced prior to April 24, 1982.

7.7.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collectors including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.7.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

N/A

7.7.7 Testing Requirements

N/A

7.7.8 Monitoring Requirements

N/A

7.7.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of red iron oxide in tons.
- b. Monthly and annual emissions.
- c. Monthly and annual natural gas usage.

7.7.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.7.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.7.12 Compliance Procedures

- a. Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-64	Product Transfer	0.01	High Moisture	---
EU-65	Dryer	19.7	Dust Collector	99%
EU-66	Crusher	1.2	Enclosed	99%
EU-67	Holding Bin	0.12	Enclosed	99%
EU-68	Conveyor	0.12	Enclosed	99%
EU-69	Unloading	0.12	-----	---
EU-70	Loading	0.12	-----	---
EU-71	Leg	0.12	Enclosed	99%
EU-72	Mill	28.8	Dust Collector	99%
EU-73	Conveyor	0.12	Enclosed	99%
EU-74	Product Transfer	0.27	Filter	99%
EU-75	Bagger	0.12	-----	---
EU-94	Storage	0.01	High	---

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			Moisture	
EU-95	Product Transfer	0.27	Dust Collector and High Moisture	99%
EU-96	Product Transfer	0.27	Dust Collector	99%

These emission factors are from AP-42, Section 11.24 Emission Factors for Metallic Minerals Processing.

Particulate Matter Emissions = Throughput X Emission Factor X (1-Control Efficiency)

- b. Fuel combustion emissions shall be calculated based on the following:

<u>Pollutant</u>	Natural Gas Emission Factors For Boilers (Lb/10 ⁶ Ft ³)
NO _x	100
PM	7.6
SO ₂	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion, Table 1.4-1 and 1.4-2, AP-42, Volume I, Supplement F, March, 1998.

Emissions (lb) = (Natural Gas Consumed, ft³) x (The Appropriate Emission Factor)

7.8 Screeners

7.8.1 Description

Manganese dioxide is being processed. Screening, bagging and conveying are the operations taking place.

7.8.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-103	Air Separator - Screeners	Air Separator Bag Filter
EU-57	Feeder Hopper for MV Screener	None
EU-58	Screw Conveyor to Leg MV Screener (Enclosed)	None
EU-59	Leg - Screeners (Enclosed)	None
EU-60	Sweco Screener	Sweco Dust Collector
EU-61	Multi-Vibe Screener	Sweco Dust Collector
EU-62	Bulk Bagging #5 - Screeners	None

7.8.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.8.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

- 1. For process weight rates up to 408 Mg/hr (450 T/hr):

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	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534
2.	For process weight rates in excess of 408 Mg/hr (450 T/hr):	

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

7.8.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because none of the metallic mineral concentrates listed in 40 CFR 60.381 are being processed on the affected emission units.

7.8.5 Operational and Production Limits and Work Practices

The Permittee shall follow good operating practices for the dust collector including periodic inspection, routine maintenance, repair of defects and visual emission checks.

7.8.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

Emissions and operation of equipment shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Operating Rate (Tons/Hour)</u>	<u>Particulate Matter Emissions (Lb/Hr)</u>	<u>(Tons/Year)</u>
Multi-Vibe Screen	1.25	0.75	0.30

These limits are based on the maximum operating rate. Compliance with annual limits shall be determined from a running total of 12 months of data.

The above limitations were established in permit 75020101, pursuant to 40 CFR 52.21, Prevention of Significant Deterioration (PSD). These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21 [T1].

7.8.7 Testing Requirements

N/A

7.8.8 Monitoring Requirements

N/A

7.8.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of manganese dioxide ore in tons.
- b. Monthly and annual emissions.

7.8.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.8.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.8.12 Compliance Procedures

Calculation of particulate matter emissions may be determined using the following emission factors:

Unit	Description	PM Factor (Lb/Ton)	Method of Control	Control Efficiency
EU-103	Air Separator	0.12	Bag Filter	99%
EU-57	Feed Hopper	0.12	-----	---
EU-58	Conveyor	0.12	Enclosed	99%
EU-59	Leg	0.12	Enclosed	99%
EU-60	Screeener	0.12	Dust Collector	99%
EU-61	Screeener	0.12	Dust Collector	99%
EU-62	Bagger	0.12	-----	---

These emission factors are from AP-42, Section 11.24 Emission Factors for Metallic Minerals Processing.

Particulate Matter Emissions = Throughput X Emission Factor X (1-Control Efficiency)

7.9 Salt and Ore Loading and Storage

7.9.1 Description

Storage of salt and ore are occurring. Also, loading and unloading of salt and ore is taking place.

7.9.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
EU-79	Load In - Salt	None
EU-80	Storage - Salt	None
EU-1	Truck and Rail Ore Unloading	None
EU-2	Ore Storage Piles	None

7.9.3 Applicability Provisions and Applicable Regulations

- a. The "affected emission units" for the purpose of these unit-specific conditions, are listed in Condition 7.9.2.
- b. The affected emission units are subject to the emission limits identified in Condition 5.2.2.
- c. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified by the following equation [35 IAC 212.321]:

$$E = A (P)^B$$

Where:

P = Process weight rate; and
E = Allowable emission rate; and,

- 1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- 2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

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	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour.

7.9.4 Non-Applicability of Regulations of Concern

The new source performance standards of 40 CFR 60 Subpart LL, Standards of Performance for Metallic Mineral Processing Plants do not apply to the affected emission units because construction was commenced prior to April 24, 1982.

7.9.5 Operational and Production Limits and Work Practices

N/A

7.9.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected emission units are subject to the following:

N/A

7.9.7 Testing Requirements

N/A

7.9.8 Monitoring Requirements

N/A

7.9.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items

for the affected emission units to demonstrate compliance, pursuant to Section 39.5(7)(b) of the Act:

- a. Monthly and annual throughput of materials in tons.
- b. Monthly and annual emissions.

7.9.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected emission units with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

7.9.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.9.12 Compliance Procedures

Calculation of particulate matter emissions may be determined using the following emission factors:

Units	PM Factor (Lb/Ton)
Loading and Unloading	0.12
Storage	0.01

These emission factors are from AP-42, Section 11.24 Emission Factors for Metallic Minerals Processing.

Particulate Matter Emissions = Throughput X Emission Factor X (1-Control Efficiency)

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after _____ **{insert public notice start date}** (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;
- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
 - i. Describe the physical or operational change;
 - ii. Identify the schedule for implementing the physical or operational change;
 - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
 - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
 - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

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8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Condition 8.6.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determination of emissions and operation which are intended to be made, including sampling and monitoring locations;

- e. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

- a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:

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- i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276
 - ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614
 - iii. Illinois EPA - Air Permit Section

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506
 - iv. USEPA Region 5 - Air Branch

USEPA (AE - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604
- b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

8.7 Obligation to Comply with Title I Requirements

Any term, condition, or requirement identified in this permit by T1, T1R, or T1N is established or revised pursuant to 35 IAC Part 203 or 40 CFR 52.21 ("Title I provisions") and incorporated into this permit pursuant to both Section 39.5 and Title I provisions. Notwithstanding the expiration date on the first page of this permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or

denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(a) and (p)(ii) of the Act and 415 ILCS 5/4]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

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The Prince Manufacturing Company
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Application No.: 001815AAB
July 23, 2002

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a

particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Compliance Section no later than May 1 of the following year, as required by 35 IAC Part 254.

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Section, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:
 - i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;
 - ii. The permitted source was at the time being properly operated;
 - iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.
- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

This permit may be modified, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;
- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or inaccurate statement when establishing the emission standards or limitations, or other terms or conditions of this permit; and
- d. The Illinois EPA or USEPA determines that this permit must be revised to ensure compliance with the applicable requirements of the Act.

9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under Section 39.5(15)(b) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

9.14 Permit Expiration and Renewal

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 - Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

10.2 Attachment 2 - Guidance on Revising This Permit

The Permittee must submit an application to the Illinois EPA using the appropriate revision classification in accordance with Sections 39.5(13) and (14) of the Act and 35 IAC 270.302. Specifically, there are currently three classifications for revisions to a CAAPP permit. These are:

1. Administrative Permit Amendment;
2. Minor Permit Modification; and
3. Significant Permit Modification.

The Permittee must determine, request, and submit the necessary information to allow the Illinois EPA to use the appropriate procedure to revise the CAAPP permit. A brief explanation of each of these classifications follows.

1. Administrative Permit Amendment
 - Corrects typographical errors;
 - Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - Requires more frequent monitoring or reporting by the Permittee;
 - Allows for a change in ownership or operational control of the source where no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new Permittees has been submitted to the Illinois EPA. This shall be handled by completing form 272-CAAPP, REQUEST FOR OWNERSHIP CHANGE FOR CAAPP PERMIT; or
 - Incorporates into the CAAPP permit a construction permit, provided the conditions of the construction permit meet the requirements for the issuance of CAAPP permits.
2. Minor Permit Modification

FINAL DRAFT/PROPOSED CAAPP PERMIT
The Prince Manufacturing Company
I.D. No.: 95120064
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July 23, 2002

- Do not violate any applicable requirement;
- Do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
- Do not require a case-by-case determination of an emission limitation or other standard, or a source-specific determination of ambient impacts, or a visibility or increment analysis;
- Do not seek to establish or change a permit term or condition for which there is no corresponding underlying requirement and which avoids an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
 - A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the CAA; and
 - An alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the CAA.
- Are not modifications under any provision of Title I of the CAA;
- Are not required to be processed as a significant permit modification; and
- Modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches.

An application for a minor permit modification shall include the following:

- A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- The source's suggested draft permit/conditions;
- Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request

that such procedures be used; and

- Information as contained on form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT for the Illinois EPA to use to notify USEPA and affected States.

3. Significant Permit Modification

- Applications that do not qualify as either minor permit modifications or as administrative permit amendments;
- Applications requesting a significant change in existing monitoring permit terms or conditions;
- Applications requesting a relaxation of reporting or recordkeeping requirements; and
- Cases in which, in the judgment of the Illinois EPA, action on an application for modification would require decisions to be made on technically complex issues.

An application for a significant permit modification shall include the following:

- A detailed description of the proposed change(s), including all physical changes to equipment, changes in the method of operation, changes in emissions of each pollutant, and any new applicable requirements which will apply as a result of the proposed change. Note that the Permittee need only submit revised forms for equipment and operations that will be modified.

The Illinois EPA requires the information on the following appropriate forms to be submitted in accordance with the proper classification:

- Form 273-CAAPP, REQUEST FOR ADMINISTRATIVE PERMIT AMENDMENT FOR CAAPP PERMIT; or
- Form 271-CAAPP, MINOR PERMIT MODIFICATION FOR CAAPP PERMIT; or
- Form 200-CAAPP, APPLICATION FOR CAAPP PERMIT (for significant modification).

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Application forms can be obtained from the Illinois EPA website at <http://www.epa.state.il.us/air/forms>.

Note that the request to revise the permit must be certified for truth, accuracy, and completeness by a responsible official.

Note that failure to submit the required information may require the Illinois EPA to deny the application. The Illinois EPA reserves the right to require that additional information be submitted as needed to evaluate or take final action on applications pursuant to Section 39.5(5)(g) of the Act and 35 IAC 270.305.



Illinois Environmental Protection Agency
 Division Of Air Pollution Control -- Permit Section
 P.O. Box 19506
 Springfield, Illinois 62794-9506

Application For Construction Permit (For CAAPP Sources Only)	For Illinois EPA use only
	I.D. number:
	Permit number:
	Date received:

This form is to be used by CAAPP sources to supply information necessary to obtain a construction permit. Please attach other necessary information and completed CAAPP forms regarding this construction/modification project.

Source Information		
1. Source name:		
2. Source street address:		
3. City:	4. Zip code:	
5. Is the source located within city limits? <input type="checkbox"/> Yes <input type="checkbox"/> No		
6. Township name:	7. County:	8. ID number:

Owner Information		
9. Name:		
10. Address:		
11. City:	12. State:	13. Zip code:

Operator Information (if different from owner)		
14. Name		
15. Address:		
16. City:	17. State:	18. Zip code:

Applicant Information	
19. Who is the applicant? <input type="checkbox"/> Owner <input type="checkbox"/> Operator	20. All correspondence to: (check one) <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Source
21. Attention name and/or title for written correspondence:	
22. Technical contact person for application:	23. Contact person's telephone number:

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.



Illinois Environmental Protection Agency
Division Of Air Pollution Control -- Permit Section
P.O. Box 19506
Springfield, Illinois 62794-9506

This Agency is authorized to require and you must disclose this information under 415 ILCS 5/39. Failure to do so could result in the application being denied and penalties under 415 ILCS 5 et seq. It is not necessary to use this form in providing this information. This form has been approved by the forms management center.

Summary Of Application Contents	
24. Does the application address whether the proposed project would constitute a new major source or major modification under each of the following programs: a) Non-attainment New Source Review – 35 IAC Part 203; b) Prevention of Significant Deterioration (PSD) – 40 CFR 52.21; c) Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources – 40 CFR Part 63?	<input type="checkbox"/> Yes <input type="checkbox"/> No
25. Does the application identify and address all applicable emissions standards, including those found in the following: a) Board Emission Standards – 35 IAC Chapter I, Subtitle B; b) Federal New Source Performance Standards – 40 CFR Part 60; c) Federal Standards for Hazardous Air Pollutants – 40 CFR Parts 61 and 63?	<input type="checkbox"/> Yes <input type="checkbox"/> No
26. Does the application include a process flow diagram(s) showing all emission units and control equipment, and their relationship, for which a permit is being sought?	<input type="checkbox"/> Yes <input type="checkbox"/> No
27. Does the application include a complete process description for the emission units and control equipment for which a permit is being sought?	<input type="checkbox"/> Yes <input type="checkbox"/> No
28. Does the application include the information as contained in completed CAAPP forms for all appropriate emission units and air pollution control equipment, listing all applicable requirements and proposed exemptions from otherwise applicable requirements, and identifying and describing any outstanding legal actions by either the USEPA or the Illinois EPA? Note: The use of "APC" application forms is not appropriate for applications for CAAPP sources. CAAPP forms should be used to supply information.	<input type="checkbox"/> Yes <input type="checkbox"/> No
29. If the application contains TRADE SECRET information, has such information been properly marked and claimed, and have two separate copies of the application suitable for public inspection and notice been submitted, in accordance with applicable rules and regulations?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable, No TRADE SECRET information in this application

Note 1: Answering "No" to any of the above may result in the application being deemed incomplete.

Signature Block	
This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete.	
30. I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete. Authorized Signature:	
BY:	
_____	_____
AUTHORIZED SIGNATURE	TITLE OF SIGNATORY
_____	_____ / _____ / _____
TYPED OR PRINTED NAME OF SIGNATORY	DATE

Note 2: An operating permit for the construction/modification permitted in a construction permit must be obtained by applying for the appropriate revision to the source's CAAPP permit, if necessary.

10.4 Attachment 4 - Guidance on Renewing This Permit

Timeliness - Pursuant to Section 39.5(5)(n) of the Act and 35 IAC 270.301(d), a source must submit to the Illinois EPA a complete CAAPP application for the renewal of a CAAPP permit not later than 9 months before the date of permit expiration of the existing CAAPP permit in order for the submittal to be deemed timely. Note that the Illinois EPA typically sends out renewal notices approximately 18 months prior to the expiration of the CAAPP permit.

The CAAPP application must provide all of the following information in order for the renewal CAAPP application to be deemed complete by the Illinois EPA:

1. A completed renewal application form 200-CAAPP, APPLICATION FOR CAAPP PERMIT.
2. A completed compliance plan form 293-CAAPP, COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT.
3. A completed compliance certification form 296-CAAPP, COMPLIANCE CERTIFICATION, signed by the responsible official.
4. Any applicable requirements that became effective during the term of the permit and that were not included in the permit as a reopening or permit revision.
5. If this is the first time this permit is being renewed and this source has not yet addressed CAM, the application should contain the information on form 464-CAAPP, COMPLIANCE ASSURANCE MONITORING (CAM) PLAN.
6. Information addressing any outstanding transfer agreement pursuant to the ERMS.
7. a. If operations of an emission unit or group of emission units remain unchanged and are accurately depicted in previous submittals, the application may contain a letter signed by a responsible official that requests incorporation by reference of existing information previously submitted and on file with the Illinois EPA. This letter must also include a statement that information incorporated by reference is also being certified for truth and accuracy by the responsible

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official's signing of the form 200-CAAPP, APPLICATION FOR CAAPP PERMIT and the form 296-CAAPP, COMPLIANCE CERTIFICATION. The boxes should be marked yes on form 200-CAAPP, APPLICATION FOR CAAPP PERMIT, as existing information is being incorporated by reference.

- b. If portions of current operations are not as described in previous submittals, then in addition to the information above for operations that remain unchanged, the application must contain the necessary information on all changes, e.g., discussion of changes, new or revised CAAPP forms, and a revised fee form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT, if necessary.
8. Information about all off-permit changes that were not prohibited or addressed by the permit to occur without a permit revision and the information must be sufficient to identify all applicable requirements, including monitoring, recordkeeping, and reporting requirements, for such changes.
9. Information about all changes made under 40 CFR 70.4(b)(12)(i) and (ii) that require a 7-day notification prior to the change without requiring a permit revision.

The Illinois EPA will review all applications for completeness and timeliness. If the renewal application is deemed both timely and complete, the source shall continue to operate in accordance with the terms and conditions of its CAAPP permit until final action is taken on the renewal application.

Notwithstanding the completeness determination, the Illinois EPA may request additional information necessary to evaluate or take final action on the CAAPP renewal application. If such additional information affects your allowable emission limits, a revised form 292-CAAPP, FEE DETERMINATION FOR CAAPP PERMIT must be submitted with the requested information. The failure to submit to the Illinois EPA the requested information within the time frame specified by the Illinois EPA, may force the Illinois EPA to deny your CAAPP renewal application pursuant to Section 39.5 of the Act.

Application forms may be obtained from the Illinois EPA website at <http://www.epa.state.il.us/air/forms.html>.

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If you have any questions regarding this matter, please contact a permit analyst at 217/782-2113.

Mail renewal applications to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

I. INTRODUCTION

This source has applied for a Clean Air Act Permit Program (CAAPP) operating permit for its existing operation. The CAAPP is the program established in Illinois for the operating permits for significant stationary sources required by the federal Clean Air Act, as amended in 1990. The conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA.

The Prince Manufacturing Company is located at One Prince Plaza in Quincy. Coarse mineral products are being processed. Processes occurring are bagging, conveying, crushing, drying, loading, milling and screening.

II. EMISSION UNITS

Significant emission units at this source are as follows:

Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-16	Transfer to Dryer 2 Storage South Wall	None	1975
EU-5	Transfer to Apron Feeder - Dryer 2	None	1975
EU-6	Conveyor to Dryer 2 (Enclosed)	None	1975
EU-7	Dryer #2	Dryer #2 Dust Collector	1975
EU-8	Conveyor to Jaw Crusher - Dryer 2 (Enclosed)	None	1975
EU-9	Jaw Crusher - Dryer 2 (Enclosed)	None	1975
EU-10	Screw Conveyor to Elevator of Floor Hopper - Dryer 2 (Enclosed)	None	1975
EU-11	Floor Hopper - Dryer 2	Floor Hopper Dust Collector	1975
EU-12	Jaw Crusher Leg - Dryer 2 (Enclosed)	None	1975
EU-13	Transfer to Dried MnO_2 Storage - Carus Building	None	1975
EU-14	Gyro Crusher - Dryer 2 (Enclosed)	None	1975
EU-15	Loader Transfer to Intermediate Storage - Dryer 2	None	1975
EU-41	Bagger Room - Mill #1	None	1975
EU-44	Loader Transfer to Feed Hopper - Mill #1	None	1975
EU-45	Screw Conveyor from Feed Hopper to Leg - Mill #1 (Enclosed)	None	1975

EU-46	Leg to Raw Bin - Mill #1 (Enclosed)	None	1975
EU-47	Williams Mill #1	Mill #1 Dust Collector	1975
EU-93	Conveyor to Rail/Truck Loading - Mill #1 (Enclosed)	None	1975

Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-97	Filter Conveyor to Raw Bin (Enclosed)	None	1975
EU-98	Rail and Truck Loading	None	1975
EU-100	Loader Mixing of 5200 Product - Mill #2	None	1975
EU-48	Loader Transfer to Feed Hopper - Mill #2	None	1975
EU-49	Screw Conveyor to Leg - Mill #2 (Enclosed)	None	1975
EU-50	Leg to Raw Bin - Mill #2 (Enclosed)	None	1975
EU-51	Raymond Mill #2	Mill #2 Dust Collector	1975
EU-52	Filter Conveyor to Raw Bin (Enclosed) - Mill #2	None	1975
EU-53	Bagger Room - Mill #2	None	1975
EU-54	Conveyor to Bulk Tank - Mill #2 (Enclosed)	None	1975
EU-55	Conveyor to Rail/Truck Loading - Mill #2	None	1975
EU-56	Rail/Truck Loading - Mill #2 Carus	None	1975
EU-76	Pneumatic Transfer to Bin - Nucor	4981 System Bin Vent Filter	1994
EU-77	Conveyor to Hammer Mill - Nucor	4981 System Dust Collector	1994
EU-78	Hammer Mill - Nucor	4981 System Dust Collector	1994
EU-99	Nucor Bagger	4981 System Dust Collector	1994
EU-17	Dry Ore Transfer - Calciner	None	1990
EU-18	Petroleum Coke - Dry Ore Mixing - Calciner	None	1990
EU-19	Loading Cage Mill - Calciner	None	1990
EU-20	Screw Conveyor to Cage Mill - Calciner	Cage Mill Dust Collector	1990
EU-21	Cage Mill - Calciner	Cage Mill Dust Collector	1990
EU-22	Screw Conveyor to Leg - Calciner (Enclosed)	None	1990
EU-23	Leg to North and South Storage Tanks - Calciner	Cage Mill Dust Collector	1990
EU-24	Loader Transfer to Alternate Feed Hopper - Calciner	None	1990

EU-25	Leg to Reduction Furnace Feed Hopper from North Tank - Calciner (Enclosed)	None	1990
EU-26	Conveyor to Reduction Furnace Feed Hopper from North Tank - Calciner (Enclosed)	None	1990

Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-27	Screw Conveyor from Hopper to Reduction Furnace - Calciner	Calciner Dust Collector	1990
EU-28	Calciner	Calciner Dust Collector	1990
EU-29	Cooling Tube - Calciner	Calciner Dust Collector	1990
EU-30	Screw Conveyor to Discharge Hopper Screw - Calciner (Enclosed)	None	1990
EU-31	Discharge Hopper Screw - Calciner (Enclosed)	None	1990
EU-32	Dust Collector Screw to Discharge Screw - Calciner (Enclosed)	None	1990
EU-33	Loader Transfer to Intermediate Storage Piles - Calciner	None	1990
EU-34	Loader Transfer to Dry Storage - Calciner	None	1990
EU-101	D-Tank Loadout Leg - Dryer #1 (Enclosed)	None	1975
EU-102	Truck and Railcar Loadout	None	1975
EU-35	Loader Transfer to Dryer #1 from Apron Feeder	None	1975
EU-36	Belt Conveyor to Dryer #1 from Apron Feeder	None	1975
EU-37	Dryer #1	Dryer #1 Dust Collector	1989
EU-38	Screw Conveyor to Leg - Dryer #1 (Enclosed)	None	1975
EU-39	Leg Dryer #1 or 80' Screw Conveyor (Enclosed)	None	1975
EU-40	Transfer to Bagger Bin Mill #1 - Dryer #1 (Enclosed)	None	1975
EU-42	D-Tank Loadout Screw Conveyor - Dryer #1 (Enclosed)	None	1975
EU-43	Transfer to 4-Tank Cluster Mill #1 - Dryer #1 (Enclosed)	None	1975
EU-64	Loader Transfer to Apron Feeder - Mill #3	None	1980
EU-65	Dryer #3 - Mill #3	Dryer #3 Dust Collector	1980
EU-66	Crusher - Mill #3 (Enclosed)	None	1980
EU-67	Raw Holding Bin Leg - Mill #3 (Enclosed)	None	1980

EU-68	Screw Conveyor to Dry Storage - Mill #3 (Enclosed)	None	1980
EU-69	Unloading in Dry Storage - Mill #3	None	1980
EU-70	Loading into Center Hopper - Mill #3	None	1980
Emission Unit	Description	Emission Control Equipment	Date Constructed
EU-71	Center Hopper Leg - Mill #3 (Enclosed)	None	1980
EU-72	Mill #3	Mill #3 Dust Collector	1980
EU-73	Screw Conveyor to Microsizer Bin - Mill #3 (Enclosed)	None	1980
EU-74	Fine Pneumatic Transfer to Bagger Bin - Mill #3	Fine Bagger Bin Filter	1980
EU-75	Bagger Room - Mill #3	None	1980
EU-94	Storage Piles at Dryer/Mill #3 Load-In (Outside)	None	1980
EU-95	Apron Feeder Transfer to Dryer #3 - Mill #3	Dryer #3 Dust Collector	1980
EU-96	Course Pneumatic Transfer to Bagger Bin - Mill #3	Mill #3 Dust Collector	1980
EU-103	Air Separator - Screener	Air Separator Bag Filter	1990
EU-57	Feed Hopper for MV Screener	None	1990
EU-58	Screw Conveyor to Leg - MV Screener (Enclosed)	None	1990
EU-59	Leg - Screeners (Enclosed)	None	1990
EU-60	Sweco Screener	Sweco Dust Collector	1990
EU-61	Multi-Vibe Screener	Sweco Dust Collector	1990
EU-62	Bulk Bagging #5 Screeners	None	1990
EU-79	Load In-Salt	None	1974
EU-80	Storage-Salt	None	1974
EU-1	Truck and Rail Ore Unloading	None	1974
EU-2	Ore Storage Piles	None	1974

III. EMISSIONS

This source is required to have a CAAPP permit since it is a major source of emissions.

For purposes of fees, the source is allowed the following emissions:
Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	4.065
Sulfur Dioxide (SO ₂)	0.305
Particulate Matter (PM)	220.00
Nitrogen Oxides (NO _x)	50.808
HAP, not included in VOM or PM	-----
Total	275.25

IV. APPLICABLE EMISSION STANDARDS

All emission sources in Illinois must comply with the Illinois Pollution Control Board's emission standards. The Board's emission standards represent the basic requirements for sources in Illinois.

All emission sources in Illinois must comply with the federal New Source Performance Standards (NSPS). The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.

All emission sources in Illinois must comply with the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

V. PROPOSED PERMIT

CAAPP

A CAAPP permit contains all conditions that apply to a source and a listing of the applicable state and federal air pollution control regulations that are the origin of the conditions. The permit also contains emission limits and appropriate compliance procedures. The appropriate compliance procedures may include inspections, work practices, monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis.

Title I

A combined Title I/CAAPP permit contains terms and conditions established by the Illinois EPA pursuant to authority found in Title I provisions, e.g., 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Notwithstanding the expiration date on the first page of the permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a CAAPP permit. The Illinois EPA is therefore proposing to issue a CAAPP permit, subject to the conditions proposed in the draft permit.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.

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