

STATE OF MINNESOTA
MINNESOTA POLLUTION CONTROL AGENCY

In the Matter of J. L. Shiely Company

Proceedings to Develop
and Implement a State Implementation
Plan for the Ramsey County PM-10
Nonattainment Area to Demonstrate,
Attain and Maintain Compliance with the
National Ambient Air Quality Standards
for particulate matter as Required by Sections
110, 172 and 189 of the Clean Air Act,
42 U.S.C. §§ 7410, 7502 and 7513a.

AMENDMENT THREE
TO AMENDED
FINDINGS
AND ORDER

The Minnesota Pollution Control Agency (MPCA), being fully advised in the premises and with the consent of J.L Shiely Company, hereby adopts this Amendment Three to the Amended Findings and Order (hereinafter Original Order) that was issued to J.L Shiely Company on August 25, 1992. The Original Order was issued to J.L Shiely Company and is part of Minnesota's State Implementation Plan (SIP) to control emissions of particulate matter in Ramsey County. The SIP, including the Original Order, has been approved by the U.S. Environmental Protection Agency (EPA). Amendment One to the Original Order was submitted to EPA on March 9, 1994. Amendment Two to the Original Order was submitted to EPA on December 22, 1994. The MPCA intends to submit this Amendment Three to the EPA for approval as part of the SIP.

In making the changes, underline denotes additions and strikethrough denotes deletions to the original language.

1. Amendment Three authorizes the following revision to Part I.A.2. of the Original Order:

Part I.A.2.:

The Company shall not exceed the opacity limits as specified in the table below:

| Emission Point Nos. | Emission Limit | Limitation Basis |
|---|---|--|
| 1-4 3-4 | 20% opacity; except that a maximum of 40% opacity shall be permissible for four minutes in any 60 minute period | Minn. Rules pt. 7005.1110 <u>7011.0105</u> |
| 5 | 20% opacity | Minn. SIP modeled PM10 ambient air standard compliance |
| 6-14 6-9, 12-14. | 20% opacity; except that a maximum of 40% opacity shall be permissible for four minutes in any 60 minute period | Minn. Rules pt. 7005.1110 <u>7011.0105</u> |
| 15, 16 | 20% opacity | Minn. Rules pt. 7005.1120 <u>7011.0110</u> |
| 17 | 20% opacity; except that a maximum of 40% opacity shall be permissible for four minutes in any 60 minute period | Minn. Rules pt. 7005.1110 <u>7011.0105</u> |
| 18 | 20% opacity | Minn. Rules pt. 7005.1120 <u>7011.0110</u> |
| 19 | 20% opacity; except that a maximum of 40% opacity shall be permissible for four minutes in any 60 minute period | Minn. Rules pt. 7005.1110 <u>7011.0105</u> |
| 20-22 | <u>20% opacity</u> | <u>Minn. Rules pt. 7011.0110</u> |

2. Amendment Three authorizes the following revision to the table in Part I.B. of the Original Order:

| Emission Point | Pollutant | Compliance Determination Method | Minimum Frequency | Testing Procedures |
|-----------------------------------|-----------|---------------------------------|-------------------|--------------------|
| 5 | PM10 | [no change] | [no change] | [no change] |
| 1 through 19 <u>3-9, 12-22</u> | Opacity | [no change] | [no change] | [no change] |

3. Amendment Three authorizes revisions to Exhibit 1 of the Original Order as Attachment 1 to this Amendment Three.

Amendment Three shall become effective on the date it is executed by the MPCA Air Quality Division Manager. Except as expressly amended herein, all provisions of the Original Order and Amendment One remain unchanged and in full force and effect.

IT IS SO ORDERED BY THE MINNESOTA POLLUTION CONTROL AGENCY:



Lisa J. Thorvig
Air Quality Division Manager
Minnesota Pollution Control Agency

Date: 2/21/95

ATTACHMENT 1

Exhibit 1

Facility Description

I. Overview

J.I. Shiely Company operates an aggregate storage and distribution facility (Yard A) on Childs Road in St. Paul. Aggregate from the Permittee's Nelson and Larson facilities is transported by barge to this yard.

Yard A is not subject to any New Source Performance Standards (NSPS) under 40 CFR Part 60, Subpart OOO. Yard A is not defined as a "nonmetallic mineral processing plant" under 40 CFR Part 60, Subpart OOO 60.671 since there is no equipment to perform crushing or grinding.

II. Emission Units and Pollution Control Equipment

The emission units, air pollution control equipment and monitoring equipment at the emission facility described above include the following:

~~Emission Point No. 1~~ Facility I. D. ~~Barge Unloading~~

~~Emission Unit~~ Type: ~~Crawler Crane~~
~~Mfr.:~~ ~~Bucyrus Erie~~
~~Date Manufactured:~~ ~~1958~~
~~Date Installed:~~ ~~1958~~
~~Model:~~ ~~116053~~

~~Control Equipment~~ Type: ~~None~~

~~Monitoring Equipment~~ Type: ~~None~~

~~Stack Parameters~~ Height: ~~N/A~~

~~Emission Point No. 2~~ Facility I. D. ~~Surge Bin~~

~~Emission Unit~~ Type: ~~Steel Bin~~
~~Mfr.:~~ ~~J. L. Shiely Company~~
~~Date Manufactured:~~ ~~1958~~
~~Date Installed:~~ ~~1958~~
~~Model:~~ ~~80 ton capacity~~
~~Size:~~ ~~10 foot diameter~~

~~Control Equipment Type: None~~

~~Monitoring Equipment Type: None~~

~~Stack Parameters Height: N/A~~

Emission Point No. 3 Facility I. D. Conveying to Product Piles

Emission Unit- Type: Belt conveyor
Mfr.: Barber Green
Date Manufactured: 1958
Date Installed: 1958
Size: 24 inches wide x 127 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 4 Facility I. D. Conveying to Product Piles

Emission Unit- Type: Radial stacker
Mfr.: Barber Green
Date Manufactured: 1958
Date Installed: 1958
Size: 24 inches wide x 150 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 5 Facility I. D. Aggregate Heater

Emission Unit- Type: Rotary heater
Mfr.: Madsen
Date Manufactured: 1958
Date Installed: 1958
Model: 25048
Fuel Permitted to Burn: No. 1 diesel
Rated Heat Input: 6 million Btu/hr

Control Equipment- Type: Cyclone
Mfr.: Iowa Manufacturing Company
Model: CH-80A

Monitoring Equipment-Type: None

Stack Parameters- Height: 30 feet
Inside Exit Diameter: 2 feet
Exhaust Gas Flow Rate: 15,000 acfm
Exhaust Gas Exit Temperature: 200°F

Emission Point No. 6 Facility I. D. Conveying to Loadout Bins

Emission Unit- Type: Belt conveyor
Mfr.: J.L. Shiely Company
Date Manufactured: 1958
Date Installed: 1958
Size: 24 inches wide x 231 feet long

Control Equipment- Type: None

Monitoring Equipment-Type: None

Stack Parameters- Height: N/A

Emission Point No. 7 Facility I. D. Conveying to Loadout Bins

Emission Unit- Type: Belt conveyor
Mfr.: J.L. Shiely Company
Date Manufactured: 1958
Date Installed: 1958
Size: 24 inches wide x 217 feet long

Control Equipment- Type: None

Monitoring Equipment-Type: None

Stack Parameters- Height: N/A

Emission Point No. 8 Facility I. D. Conveying to Loadout Bins

Emission Unit- Type: Belt conveyor
 Mfr.: J. L. Shiely Company
 Date Manufactured: 1958
 Date Installed: 1958
 Size: 24 inches wide x 300 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 9 Facility I. D. Loadout Bins

Emission Unit- Type: Three steel bins
 Mfr.: J. L. Shiely Company
 Date Manufactured: 1958
 Date Installed: 1958
 Model: 80 ton capacity per bin

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

~~**Emission Point No. 10** Facility I. D. Barge Unloading~~

~~Emission Unit Type: Crawler Crane
 Mfr.: Bucyrus Erie
 Date Manufactured: 1958
 Date Installed: 1958
 Model: 87348~~

~~Control Equipment Type: None~~

~~Monitoring Equipment Type: None~~

~~Stack Parameters Height: N/A~~

~~Emission Point No.11~~ ~~Facility I. D. Surge Bin~~

~~Emission Unit~~ Type: ~~Steel bin~~
~~Mfr.:~~ ~~J. L. Shiely Company~~
~~Date Manufactured:~~ ~~1958~~
~~Date Installed:~~ ~~1958~~
~~Model:~~ ~~80 ton capacity~~
~~Size:~~ ~~10 foot diameter~~

~~Control Equipment~~ Type: ~~None~~

~~Monitoring Equipment~~ Type: ~~None~~

~~Stack Parameters~~ Height: ~~N/A~~

Emission Point No. 12 Facility I. D. Conveying to Product Piles

Emission Unit- Type: Belt conveyor
Mfr.: Barber Green
Date Manufactured: 1958
Date Installed: 1958
Size: 24 inches wide x 127 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 13 Facility I. D. Conveying to Product Piles

Emission Unit- Type: Radial stacker
Mfr.: Barber Green
Date Manufactured: 1958
Date Installed: 1958
Size: 24 inches wide x 150 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 14

Facility I. D. Conveying to Loadout Bins

Emission Unit- Type: Belt conveyor
 Mfr.: J. L. Shiely Company
 Date Manufactured: 1958
 Date Installed: 1958
 Size: 36 inches wide x 165 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 15

Facility I. D. Conveying to Loadout Bins

Emission Unit- Type: Belt conveyor
 Mfr.: J. L. Shiely Company
 Date Manufactured: 1988
 Date Installed: 1988
 Size: 36 inches wide x 225 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 16

Facility I. D. Conveying to Loadout Bins

Emission Unit- Type: Belt conveyor
 Mfr.: Marco
 Date Manufactured: 1988
 Date Installed: 1988
 Size: 36 inches wide x 150 feet long

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 17 Facility I. D. Loadout Bins

Emission Unit- Type: Steel bin
 Mfr.: J. L. Shiely Company
 Date Manufactured: 1958
 Date Installed: 1958
 Model: 80 ton capacity
 Size: 10 foot diameter

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 18 Facility I. D. Loadout Bins

Emission Unit- Type: Steel bin
 Mfr.: MSM Charter
 Date Manufactured: 1988
 Date Installed: 1988
 Model: 100 ton capacity

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 19 Facility I. D. Barge Unloading

Emission Unit- Type: Crawler Crane
 Mfr.: American
 Date Manufactured: 1958
 Date Installed: 1958
 Model: 7250L#6515562

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 20 Facility I. D. Hopper

Emission Unit- Type: Hopper
Mfr.: J. L. Shiely Company
Date Manufactured: 1995
Date Installed: Approx. April, 1995
Model: YAH1
Capacity: 700 tons per hour

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 21 Facility I. D. Directional Conveyor

Emission Unit- Type: Belt Conveyor
Mfr.: Superior
Date Manufactured: Unknown
Date Installed: 1995
Model: YA1
Capacity: 700 tons per hour

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A

Emission Point No. 22 Facility I. D. Diesel Backhoe

Emission Unit- Type: Diesel Backhoe
Mfr.: CAT
Date Manufactured: 1995
Date Installed: Approx. April 1995
Model: 244 BT
Fuel Burned: Diesel fuel

Control Equipment- Type: None

Monitoring Equipment- Type: None

Stack Parameters- Height: N/A