

2.2.I Crysen Refining, Inc., 2355 South 1000 West, Woods Cross, Davis County

1. The installation shall consist of the following equipment:

A. Boilers and Furnaces

- 1) H.D.S. Furnace [H-102]
- 2) Reformer Furnace [H-101]
- 3) Asphalt Blowing Furnace [F-701]
- 4) Asphalt Furnace [F-601]
- 5) Vacuum Furnace [F-501]
- 6) No. 2 Crude Unit Furnace [-251]
- 7) Preflash Furnace [F-231]
- 8) Stabilizer Furnace [F-221]
- 9) No. 1 Crude Unit Furnace [F-201]
- 10) Steam Boiler No. 1 [B-1]
- 11) Steam Boiler No. 2 [B-2]
- 12) Steam Boiler No. 3 [B-3]

B. Natural Gas Compressor Drivers (Reformer)

- 13) 150 Hp Compressor [K-1]
- 14) 150 Hp Compressor [K-2]
- 15) 330 Hp Compressor [K-3]

C. 16) The Refinery Flare

D. 17) Sulfur Recovery Unit (SRU)

2. The following shall be the basis for SO₂ emissions limitations:

A. Emissions Limitation:

Crysen Refining, Inc., Salt Lake Refinery's maximum SO₂ emissions to the atmosphere shall not exceed 0.557 tons/day. Of this total, SO₂ emissions from all sources included under the emissions cap shall not exceed 0.502 tons/day. The annual emission limitation for SO₂ from all sources shall not exceed 183 tons. Of this total, the annual SO₂ emissions from all sources included under the emissions cap shall not exceed 165.5 tons.

- B. The following sources shall be included in the SO₂ Emissions Cap.

Boilers and Furnaces:

- 1) H.D.S. Furnace [H-102]
- 2) Reformer Furnace [H-101]
- 3) Asphalt Furnace [F-601]
- 4) Vacuum Furnace [F-501]
- 5) No. 2 Crude Unit Furnace [-251]
- 6) Preflash Furnace [F-231]
- 7) Stabilizer Furnace [F-221]
- 8) No. 1 Crude Unit Furnace [F-201]
- 9) Steam Boiler No. 1 [B-1]
- 10) Steam Boiler No. 2 [B-2]
- 11) Steam Boiler No. 3 [B-3]

Compressors:

- 12) 150 Hp Compressor [K-1]
- 13) 150 Hp Compressor [K-2]
- 14) 330 Hp Compressor [K-3]

- C. SO₂ emissions for the Emissions Cap Sources shall be determined by applying various emission factors to the relevant quantities of fuel combusted. This shall be performed according to the following:

The total natural gas consumption at the plant is measured by meter FR-901. The gas stream splits downstream of this meter. The slipstream that is routed to the natural gas compressors is measured by meter FR-902. An emission factor of 0.60 lb/mmscf shall be applied to the quantity of natural gas metered by FR-902 for the 24-hour period to determine the daily emissions as:

Emission Factor (0.60 lb SO₂ / mmscf) * Natural Gas Consumption (mmscf/24 hrs) / (2,000 lb/ton)

The remaining portion of natural gas is blended with plant gas in the refinery fuel gas drum. The mixed gas is distributed to the boilers and furnaces throughout the plant. The flowrate of this gas stream is measured by meter FR-903. The emission factor to be used in conjunction with this gas stream is dependant on the H₂S content of the blended gas. The H₂S content shall be measured, in parts per million by volume (ppmv), by a continuous emissions monitor located downstream of the refinery fuel gas drum. Daily emission factors shall be calculated using average daily H₂S content data from the CEM. The emission factor shall be calculated as follows:

$$(\text{lb SO}_2 / \text{mmscf gas}) = (24 \text{ hr avg. ppmv H}_2\text{S}) / 10^6 * \\ (64 \text{ lb SO}_2 / \text{lb mole}) * (10^6 \text{ scf} / \text{mmscf}) / (379 \\ \text{scf} / \text{lb mole})$$

The emissions associated with the combustion of this gas shall then be calculated as:

$$\text{Emission Factor (lb SO}_2 / \text{mmscf}) * \text{Blended Gas} \\ \text{Consumption (mmscf/24 hrs)} / (2,000 \text{ lb/ton})$$

Fuel oil consumption shall be monitored with tank gauges. An emissions factor shall be calculated based on the sulfur content of the fuel oil (in weight percent), as determined by ASTM Method D-4294-89 or approved equivalent, and on the density of the fuel oil, as follows:

$$(\text{lb SO}_2 / \text{kgal}) = (\text{density lb/gal}) * (1000 \\ \text{gal/kgal}) * (\text{wt.}\% \text{ S}) / 100 * (64 \text{ g SO}_2 / 32 \text{ g S})$$

Daily emissions shall then be calculated by applying this emission factor the amount of fuel oil consumed for the 24-hour period (kgal/24 hrs) as:

$$\text{Emission Factor (lb/kgal)} * \text{Fuel Oil Consumption} \\ (\text{kgal/24 hrs}) / (2,000 \text{ lb/ton})$$

Fuel oil may only be combusted during periods of natural gas curtailment.

Total 24-hour SO₂ emissions for the sources included in the emissions cap shall be calculated by adding the daily results of the above SO₂ emissions equations for fuel gas, fuel oil, and natural gas combustion. Results shall be tabulated every day, and records shall be kept which include the CEM readings for H₂S (averaged for each one-hour period), all meter readings (in the appropriate units), fuel oil parameters (density and wt.% S, recorded for each day any fuel oil is burned), and the calculated emissions. See section 2.1.M Petroleum Refineries of the General Requirements of this Appendix for compliance demonstration details.

D. Individual Point Source Limitation:

SO₂ emissions limits shall be individually set for each point source not designated as being in the emissions cap. The following Non-Emissions Cap

Sources shall be regulated individually for SO₂ at the following emission limits:

<u>Point Source</u>	<u>lb/hr</u>	<u>tons/yr</u>	<u>gr/dscf</u>
Asphalt Blowing Furnace (F-701)	4.60	17.5	0.10

SRU Tailgas Incinerator - limits shall be established in accordance with UACR 3.1

E. Stack testing to determine hourly, daily, and annual compliance for the non-capped sources described in number 2 D, above, shall be performed as directed in condition number 5 below, and in accordance with sections 2.1.A and 2.1.M of this appendix.

F. The following sources shall not be regulated for SO₂ emissions, nor shall they be included in the emission limitation totals herein.

1) The Refinery Flare

3. The following shall be the basis for NO_x emissions limitations:

A. Emissions Limitation:

Crysen Refining, Inc., Salt Lake Refinery's maximum NO_x emissions to the atmosphere shall not exceed 0.556 tons/day. Of this total, NO_x emissions from all sources included under the emissions cap shall not exceed 0.556 tons/day. The annual emission limitation for NO_x from all sources shall not exceed 156 tons. Of this total, the annual NO_x emissions from all sources included under the emissions cap shall not exceed 156 tons.

B. The following sources shall be included in the NO_x Emissions Cap:

Boilers and Furnaces:

- 1) H.D.S. Furnace [H-102]
- 2) Reformer Furnace [H-101]
- 3) Asphalt Blowing Furnace [F-701]
- 4) Asphalt Furnace [F-601]
- 5) Vacuum Furnace [F-501]
- 6) No. 2 Crude Unit Furnace [-251]
- 7) Preflash Furnace [F-231]

- 8) Stabilizer Furnace [F-221]
- 9) No. 1 Crude Unit Furnace [F-201]
- 10) Steam Boiler No. 1 [B-1]
- 11) Steam Boiler No. 2 [B-2]
- 12) Steam Boiler No. 3 [B-3]
- 13) 150 Hp Compressor [K-1]
- 14) 150 Hp Compressor [K-2]
- 15) 330 Hp Compressor [K-3]
- 16) SRU Tailgas Incinerator

C. NO_x emissions for the Emissions Cap Sources shall be determined by applying various emission factors to the relevant quantities of fuel combusted.

1) Boilers and Furnaces:

Emission Factors for the boilers and furnaces shall be as follows:

natural gas - 140 lb/mmscf
 plant gas - 140 lb/mmscf
 fuel oil - 120 lb/kgal

Daily gas consumption by all boilers and furnaces shall be measured by meter FR-903 located downstream of the refinery fuel gas drum. The gas that flows through this meter is actually a blend of plant gas and natural gas. Since the emission factors are considered to be the same for either gas (140 lb/mmscf), this factor will be applied to the metered quantity of blended gas.

Should future information reveal that there is a difference in the emission factors for natural gas and plant gas, then the respective quantities will need to be delineated as:

$$\text{Natural Gas} = (\text{meter FR-901}) - (\text{meter FR-902})$$

$$\text{Plant Gas} = (\text{meter FR-902}) + (\text{meter FR-903}) - (\text{meter FR901})$$

Daily fuel oil consumption shall be monitored with tank gauges. Fuel oil consumption shall be allowed only during periods of natural gas curtailment.

The equations used to determine emissions for the boilers and furnaces shall be as follows:

Emission Factor (lb/mmscf) * Gas Consumption
(mmscf/24 hrs) / (2,000 lb/ton)

Emission Factor (lb/kgal) * Fuel Oil
Consumption (kgal/24 hrs) / (2,000 lb/ton)

2) Natural Gas Compressors:

Emission Factors for the natural gas
compressor drivers shall be as follows:

natural gas - 3400 lb/mmscf

Daily natural gas consumption for the
compressor drivers shall be measured by meter
FR-902.

The equation used to determine emissions for
the compressor drivers will be as follows:

Emission Factor (lb/mmscf) * Natural Gas
Consumption (mmscf/24 hrs) / (2,000 lb/ton)

- 3) Total 24-hour NO_x emissions for sources
included in the emissions cap shall be
calculated by adding the results of the above
NO_x equations for fuel oil, natural gas, and
(if necessary) plant gas combustion. Results
shall be tabulated every day, and records
shall be kept which include the meter
readings (in the appropriate units) and the
calculated emissions. See section 2.1.M
Petroleum Refineries of the General
Requirements of this Appendix for compliance
demonstration details.

D. The following sources shall not be regulated for
NO_x emissions, nor shall they be included in the
emission limitation totals herein.

1) The Refinery Flare

4. The following shall be the basis for the PM₁₀ emissions
limitations:

A. Emissions Limitations:

Crysen Refining, Inc., Salt Lake Refinery's
maximum PM₁₀ emissions to the atmosphere shall not
exceed 0.0074 tons per day. Of this total, PM₁₀
emissions from all sources included under the

emissions cap shall not exceed 0.0074 tons per day. The annual emission limitation for PM₁₀ from all sources shall not exceed 2.70 tons. Of this total, the annual PM₁₀ emissions from all sources included under the emissions cap shall not exceed 2.70 tons.

B. The following sources shall be included in the PM₁₀ emissions cap:

- 1) H.D.S. Furnace [H-102]
- 2) Reformer Furnace [H-101]
- 3) Asphalt Blowing Furnace [F-701]
- 4) Asphalt Furnace [F-601]
- 5) Vacuum Furnace [F-501]
- 6) No. 2 Crude Unit Furnace [-251]
- 7) Preflash Furnace [F-231]
- 8) Stabilizer Furnace [F-221]
- 9) No. 1 Crude Unit Furnace [F-201]
- 10) Steam Boiler No. 1 [B-1]
- 11) Steam Boiler No. 2 [B-2]
- 12) Steam Boiler No. 3 [B-3]
- 13) SRU Tailgas Incinerator

C. PM₁₀ emissions for the Emissions Cap Sources shall be determined by applying the following emission factors to the relevant quantities of fuel combusted in each unit. This shall be performed according to the following:

1) Emission Factors for the combustion sources shall be as follows:

natural gas - 5 lb/mmscf

plant gas - 5 lb/mmscf

fuel oil - the PM₁₀ emission factor for fuel oil combustion shall be determined based on the H₂S content of the fuel oil as:

$$PM_{10} \text{ (lb/kgal)} = (10 * \text{wt.} \% S) + 3$$

2) Daily plant gas consumption for the cap sources (all boilers and furnaces) shall be measured as follows:

$$\text{Natural Gas} = (\text{meter FR-901}) - (\text{meter FR-902})$$

$$\text{Plant Gas} = (\text{meter FR-902}) + (\text{meter FR-903}) - (\text{meter FR901})$$

Daily fuel oil consumption shall be monitored by means of leveling gages on all tanks which

feed combustion sources. Fuel oil consumption shall be allowed only during periods of natural gas curtailment.

- 3) The equations used to determine emissions shall be as follows:

Emission Factor (lb/mmscf) * Natural Gas Consumption (mmscf/24 hrs) / (2,000 lb/ton)

Emission Factor (lb/mmscf) * Plant Gas Consumption (mmscf/24 hrs) / (2,000 lb/ton)

Emission Factor (lb/kgal) * Fuel Oil Consumption (kgal/24 hrs) / (2,000 lb/ton)

- 4) Total 24-hour PM₁₀ emissions for the sources included in the emissions cap shall be calculated by adding the daily results of the above PM₁₀ emissions equations for plant gas, fuel oil, and natural gas combustion. Results shall be tabulated every day, and records shall be kept which include all meter readings (in the appropriate units), fuel oil parameters (wt.% S), and the calculated emissions. See section 2.1.M Petroleum Refineries of the General Requirements of this Appendix for compliance demonstration details.

- D. The following sources shall not be regulated for PM₁₀ emissions, nor shall they be included in the emission limitation totals herein.

- 1) 150 Hp Compressor [K-1]
- 2) 150 Hp Compressor [K-2]
- 3) 330 Hp Compressor [K-3]
- 4) The refinery flare

5. Stack Testing Requirements:

The following point sources have been required to comply with various emission rates and concentrations in the paragraphs preceding. The following is summary of the testing methods and frequencies appropriate to each point source. The provisions set forth in Appendix A 2.1.A of this document apply to the testing of these listed sources.

A. Asphalt Blowing Furnace

	<u>Limitations</u>	<u>Test Method</u>	<u>Frequency</u>
SO ₂	4.60 lb/hr	6	If Directed

B. SRU Tailgas Incinerator

SO₂ shall be established in
accordance with UACR 3.1 CEM Continuous

6. Annual emissions for this facility are hereby established at 2.70 tons/yr for PM₁₀, 206 tons/yr for SO₂ (which includes an estimated 23 tons of emissions resulting from the sulfur plant being down for annual maintenance), and 156 tons/yr for NO_x.

2.2.M Engelhard - (Harshaw Filtrol)

1. The installations shall consist of the following equipment:
 - A. Bulk alumina receiving, off-loading and storage facilities - vented to a New Micro-pulse air baghouse
 - B. Two (2) Mixers - vented to Stack #2 through a cyclone and a Micro-pulse fabric filter
 - C. Two (2) Extruders - not vented and not a source of air pollution
 - D. Two (2) Slot Dryers - vented through Stack #3 with no emission controls
 - E. One (1) Rotary Calciner - vented with no emission controls into the slot dryers for heat recovery, and/or through the slot calciner stack #7, and/or the wet scrubber (stack #6)
 - F. Two (2) Impregnators - vented to Stack #2 through a cyclone and a Micro-pulse fabric filter
 - G. One (1) Tray Dryer - vented through Stack #4 with no controls
 - H. Screening & packaging operation - vented to Stack #5 through a Ducon Fabric Filter control device
 - I. One (1) Cage Mill vented - vented to Stack #2 through a cyclone and a Micro-pulse fabric filter
 - J. One (1) Slot Calciner - vented without control
 - K. Catalyst Regeneration furnace and associated pollution control equipment (wet scrubber stack #6)

2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:
 - A. Stack #2, Micro-pulse baghouse control:

PM ₁₀	0.390 lbs/hr	0.016 grains/dscf
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 - B. Stack #6, wet caustic scrubber control:
 1. PM₁₀ 0.96 lb/hr 0.016 grains/dscf

2. SO₂ 51 lb/hr max 31.5 ton 12-months
(Averaged over 24 hr) rolling
average

Sulfur emissions and reduction shall be determined by a mass balance method which shall be submitted by Engelhard and approved by the Executive Secretary. The method shall use an analysis for sulfur content of the catalyst before and after regeneration in conjunction with a 90% minimum removal efficiency of the SO₂ scrubber.

3. NO_x 113 lb/hr max 94.54 ton 12-months
(averaged over 24 hr) rolling
average

No_x emissions shall be determined by a mass balance method, process limitation or work practice methodology which shall be submitted by Engelhard prior to the promulgation of the SIP and approved by the Executive Secretary.

3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, 40 CFR 51, Appendix M (see paragraph 2.1.A. for more details), and as directed by the Executive Secretary:

	Method	Retest every
A.	Stack #2, Micro-pulse baghouse control	
	PM ₁₀ 201/201a	Test if directed
B.	Stack #6, wet scrubber control	
	1. PM ₁₀ 201/201a	3 years
	2. SO ₂ 6	3 years

4. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

- A. 2.6 ton/hr regenerated catalyst feed rate
- B. 2,250 ton/yr regenerated catalyst
- C. 1.5 ton/hr new catalyst materials feed rate
- D. 3,500 tons/yr new catalyst
- E. 7,884 hours per year

Production limitations shall be determined by examination of company production records which shall be maintained at

the plant. The records shall be kept on a daily basis. Hours of operation and production rates shall be determined by supervisor monitoring and maintaining an operations log.

5. Annual emissions for this source (the entire plant) are hereby established at 34.9 tons/yr for PM_{10} , 31.5 tons/yr for SO_2 , 94.5 tons/yr for NO_x .

2.2.U Interstate Brick Company

1. Interstate Brick Company, located at 9780 South 5200 West, West Jordan, Utah, shall operate the brick/tile production plant according to the following conditions.

2. The installations shall consist of only the following equipment:

- A. Tunnel Kiln #1
- B. Tunnel Kiln #3
- C. Tunnel Kiln #4
- D. Shuttle Kiln (#5)
- E. Grizzly Hopper
- F. Primary Crusher
- G. Secondary Crusher/Grinding
- H. Screens
- I. 2 Lime Silos
- J. Clay Storage Piles
- K. Miscellaneous Diesel Equipment

3. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

A. Tunnel Kiln #1;

1.	PM ₁₀	2.6 lbs/hr	0.028 grains/dscf
2.	NO _x	2.5 lbs/hr	32 ppmdv

B. Tunnel Kiln #3

1.	PM ₁₀	3.1 lbs/hr	0.028 grains/dscf
2.	NO _x	3.0 lbs/hr	33 ppmdv

C. Tunnel Kiln #4

1.	PM ₁₀	12.3 lbs/hr	0.039 grains/dscf
2.	NO _x	6.0 lbs/hr	23 ppmdv

D. Shuttle Kiln

1.	PM ₁₀	1.6 lbs/hr	0.028 grains/dscf
2.	NO _x	0.18 lbs/hr	3.9 ppmdv

E. Primary Crusher Baghouse Vent

1.	PM ₁₀	0.49 lbs/hr	0.016 grains/dscf
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F. See note at end of subsection on need to perform SO₂ testing

4. Stack testing to show compliance with the above emission limitations shall be performed for the following emission

points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, 40 CFR 51, Appendix M (see paragraph 2.1.A. for more details), and as directed by the Executive Secretary:

Point	Method	Retest every
A. Tunnel Kiln #1		
1. PM ₁₀	201/201a	Test if Directed
2. NO _x	7	Test if Directed
B. Tunnel Kiln #3		
1. PM ₁₀	201/201a	Test if Directed
2. NO _x	7	Test if Directed
C. Tunnel Kiln #4		
1. PM ₁₀	201/201a	3 years
2. NO _x	7	3 years
D. Shuttle Kiln		
1. PM ₁₀	201/201a	Test if Directed
2. NO _x	7	Test if Directed
E. Primary Crusher		
1. PM ₁₀	201/201a	3 years

5. The following limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

A. Raw Clay Consumption:

120 tons/hr
1,051,200 tons/yr

B. Tunnel Kiln #1:

5000 hours/yr
68,250 tons of brick/year

C. Tunnel Kiln #3:

148,044 tons of brick/year

D. Tunnel Kiln #4:

291,288 tons of brick/year

E. Shuttle Kiln #5:

5000 hours/yr
5000 tons of tile/year

Records of production shall be kept for each of the above listed sources.

6. The moisture content of the clay feed shall be maintained at a value of no less than 4.0% by weight. The silt content of the clay shall not exceed 18.0% by weight without prior approval in accordance with Section 3.1, UACR. The moisture and silt content shall be tested if directed by the Executive Secretary using the appropriate ASTM method.
7. The owner/operator shall use only natural gas as fuel in the brick/tile kilns. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UACR.
8. Annual emissions for this source (the entire plant) are hereby established at 96 tons/yr for PM_{10} , 0.04 tons/yr for SO_2 , and 46 tons/yr for NO_x .

Note: There is a need to have Interstate Brick perform stack testing of their kilns while processing different type brick/tile materials. The SO_2 emission levels are not known as of this time of PM_{10} SIP finalization. Interstate Brick shall conduct the adequate testing using proper EPA Test Methods to quantify SO_2 emission levels from manufacturing operations and submit a notice of intent to the executive secretary not later than September 1, 1992 in accordance with Section 3.1.1, UACR to reduce SO_2 emissions as required by the SIP (RACT). The modifications to reduce SO_2 emissions shall be completed not later than December 10, 1993.

the end of each month of operation.

7. Natural gas consumption shall be determined by metering the gas as it is fed into the boilers with gauges, which shall be installed if necessary. Records shall be kept on a daily basis. Coal consumption shall be determined by examination of purchase records and the use of a weigh conveyor which feeds each boiler.
8. Annual emissions for this source (the entire power plant) are hereby established at 257 tons/yr for PM_{10} , 6219 tons/yr for SO_2 , and 5085 tons/yr for NO_x .

2.2.AA Kennecott - Barney's Canyon Operations

1. The installations shall consist of only the following equipment located at the site:

- A. Crushers
- B. Screens
- C. Conveyors
- D. Haul Trucks
- E. Loaders
- F. Graders
- G. Bulldozers
- H. Drills
- I. Cement Silo
- J. Propane Heaters
- K. Mercury Retorts
- L. Water Trucks
- M. Lab Equipment
- N. Utility Vehicles
- O. Cranes
- P. Forklifts
- Q. Light Plants
- R. Induction Furnace
- S. Carbon Regeneration Kiln
- T. Various Small Engine Powered Mobile Equipment

2. Ore throughput shall not exceed 2,400,000 tons per 12-month period without prior approval in accordance with Section 3.1, UACR. Compliance with the throughput limitation shall be determined on a rolling-monthly total. On the first day of each new month, a new 12-month total shall be calculated using the previous 12 months. Records of throughput shall be kept for all periods when the plant is in operation. Records of throughput shall be made available to the Executive Secretary of the Utah Air Conservation Committee upon request, and shall include a period of two years ending with the date of the request. Throughput shall be determined by the use of weight conveyors and a daily operations log. The daily throughput shall be entered in the operations log every day.

3. Visible emissions from the following emission points shall not exceed the following values:

- A. Crushers - 10% opacity
- B. Screens - 10% opacity
- C. Conveyor transfer points - 10% opacity
- D. Cement silo - 10% opacity
- E. All fume hoods - 5% opacity
- F. All propane heaters - 5% opacity
- G. Unpaved roads, front-end loading, truck dumping,

- stockpiles, blasting, bulldozing, operations
area - minimize emissions
- H. Drilling - 10% opacity
 - I. Atomic absorption laboratory - 5% opacity
 - J. Cyanide mixing tank - 5% opacity
 - K. Carbon acid wash - 5% opacity
 - L. Carbon stripping - 5% opacity
 - M. Carbon regeneration - 5% opacity
 - N. Mercury retort - 5% opacity
 - O. Ammonium Nitrate Storage Silos - 10% Opacity
 - P. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9.

- 4. The height of the mine waste dump lift shall not exceed 500 feet. The owner/operator shall provide to the Executive Secretary for approval a method to keep opacity on active waste slopes at less than 10% opacity. Average opacity emissions from the active waste dump push slopes shall not exceed 10%. To insure that 10% opacity is not exceeded, the waste dump slopes shall be monitored for opacity level during dumping activity. If the 10% opacity limitation cannot be maintained by applying additional control measures, dumping activity shall be relocated to an alternative site where 10% opacity can be maintained. Relocation shall be performed within six (6) operating hours of an exceedance of the 10% opacity limit. Opacity observations of emissions from these sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9.
- 5. The ore and waste haul roads shall be treated with magnesium chloride solution and shall be treated in accordance with the fugitive dust control plan appended to this subsection. Modifications of the fugitive dust control plan may be made with consent with the Executive Secretary without processing a new approval order. The fugitive dust control plan shall be accepted by the Executive Secretary prior to issuance of the approval order.
- 6. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:
 - A. All crushers
 - B. All screens
 - C. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant and to the extent necessary to keep equipment operation within an opacity limitation of 10%.

7. The following operating parameters shall not be exceeded without prior approval in accordance with Section 3.1, UACR:
 - A. Bulldozing total hours of operation for all bulldozers used per 12-month period - 20,175 hours
 - B. Length of Melco pit haul roads - 5.0 miles
 - C. Length of Barneys pit haul roads - 1.4 miles
 - D. Length of waste dump haul roads - 1.0 miles
 - E. Maximum gross weight of all haul trucks - 162 tons
 - F. Minimum gross weight of all haul trucks - 85 tons
 - G. Ore truck trips per 12-month period - 90,000
 - H. Truck trips to mine dumps per 12-month period - 220,000

Compliance with the limitations on the bulldozing hours of operation, the ore truck trips, and the truck trips to the mine dumps shall be determined on a rolling-monthly total. On the first day of each month a new 12-month total shall be calculated using the previous 12 months.

Records of hours of operation on the bulldozing, the ore truck trips and the truck trips to the mine dump shall be kept for all periods when the plant is in operation. The records shall be made available to the Executive Secretary upon request, and shall include a period of two years ending with the date of the request. The bulldozing hours of operation shall be determined by examination of an operations log in which shall be recorded daily the bulldozing hours of operation. The entries shall include all hours of all machines operated.

The number of truck trips shall be determined by examination of an operations log in which trips shall be recorded daily. The entries shall include all truck trips to each respective destination.

8. The drills used for drilling the blast holes shall be equipped with small fabric filter units mounted on the

drill carriage or otherwise connected to the drill or wet drilling shall be performed. The filter units shall be operative whenever dry air drilling is taking place.

9. The cement silo shall be equipped with a fabric type bin vent control unit. All displaced air generated from filling the silo with cement shall pass through the filter unit before being vented to the atmosphere.
10. All ore storage piles shall be sprayed with water or chemical dust suppressants as dry conditions warrant or as determined necessary by the Executive Secretary.
11. The pH of the leaching solution shall be no less than 10 at all times. The pH shall be continuously monitored. The readout for each leaching pile shall be located where an inspector can safely read the pH at any time. Continuous recording of the pH on strip charts or another similar recording device is required. The continuous monitoring system shall be subject to Section 4.6.4, UACR, which deals with monitoring reports. All continuous monitoring data shall be kept by the source for a minimum period of two years after the date on which emissions occurred and shall be made available to the Executive Secretary upon request.
12. The sulfur content of diesel fuel oil burned in the equipment engines shall not exceed 0.21 pound of sulfur (.026 pound of sulfur after December 1993) per million BTU heat input as determined by ASTM Method D-4294-89. (This represents 0.4% sulfur (less than 0.05% after December 1993) by weight in the fuel oil, 137,000 btu/gal, and 7.05 lb/gal). The sulfur content shall be tested if directed by the Executive Secretary. Fuel consumption shall not exceed 1,500,000 gal/yr. Fuel consumption shall be determined by mine records of oil purchased.
13. For sources which are subject to NSPS, visible emission observations which are performed during the initial compliance inspection shall consist of 30 observations of six minutes each in accordance with 40 CFR 60, Appendix A, Method 9. It is the responsibility of the owner/operator of the source(s) to supply these observations to the Executive Secretary. Emission points which are subject to NSPS shall include the following:
 - A. All ore crushers
 - B. All ore classifying screens
 - C. All conveyor transfer points

14. The moisture content of the ore material shall be maintained at a value of no less than 4% by weight during handling operations. The moisture content shall be tested if directed by the Executive Secretary using the appropriate ASTM method.
15. Annual emissions for this source (the entire plant site) are currently calculated at 160 tons/yr for PM_{10} , 23 tons/yr for SO_2 , 216 tons/yr for NO_x .

2.2.CC LDS Hospital

1. The installations shall consist of the following equipment located at the site:
 - A. Boilers No. 1 and 2 (22,000 lb steam/hr each)
 Associated Baghouses (18,000 ACFM each)
 - B. Boiler No. 3 (43,000 lb steam/hr)
 Associated Baghouse (40,430 ACFM)
2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

For "Summer-time" coal fired operation, during the period from March 1st through October 31st:

- A. Boiler No. 1
 1. PM₁₀ 0.88 lbs/hr .012 grains/dscf
 2. SO₂ 36.0 lbs/hr 420 ppm_{dv}
 3. NO_x 16.8 lbs/hr 274 ppm_{dv}
- B. Boiler No. 2
 1. PM₁₀ 0.88 lbs/hr .012 grains/dscf
 2. SO₂ 36.0 lbs/hr 420 ppm_{dv}
 3. NO_x 16.8 lbs/hr 274 ppm_{dv}
- C. Boiler No. 3
 1. PM₁₀ 0.99 lbs/hr .006 grains/dscf
 2. SO₂ 70.4 lbs/hr 366 ppm_{dv}
 3. NO_x 17.6 lbs/hr 128 ppm_{dv}

For any combination of boilers the arithmetic sum of the individual boiler mass limitations shall apply.

3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, and Paragraph 2.1.A:

	Method	Test Date
Boilers no. 1 & 2 & 3		
A.	PM ₁₀	201/201a
B.	SO ₂	6
		1 year Test If Directed

4. The owner/operator shall fire natural gas in the boilers from November 1st through February 28th each season beginning in the winter season of 1992-1993. The remainder of the year coal may be fired at the discretion of the source management.

The sulfur content of any coal or any mixture of coals burned shall not exceed 0.60 pound of sulfur per million BTU heat input as determined by ASTM Method D-3177-75. The sulfur content shall be tested if directed by the Executive Secretary. Coal consumption shall not exceed 10,467 tons/yr. Coal consumption shall be determined by maintaining sales receipts, and by monitoring the daily input of coal. Compliance with the annual limitations shall be determined for each summer season. On the first day of each March a new seasonal record shall begin, and shall continue through October 31st. Records of fuel consumption (both coal and gas) shall be kept for all periods when the plant is in operation. Records of consumption shall be made available to the Executive Secretary upon request, and shall include a period of two years ending with the date of the request.

5. Particulate captured in the control facilities shall be conveyed to the existing ash handling equipment where it shall be mixed with water to minimize emissions during disposal of the collected ash.
6. Annual emissions for this source (the entire plant) are hereby established at 6.18 tons/yr for PM₁₀, 156.9 tons/yr for SO₂, 74.2 tons/yr for NO_x.

2.2.DD LDS Welfare Square

1. The installations shall consist of only the following equipment plus any equipment not capable of producing air contaminants:
 - A. Modified Keeler Boiler (Natural Gas Fired) 17,000 lb steam/hr
 - B. Cleaver Brooks Boiler (Natural Gas) 150 HP
 - C. Superior Boiler (Natural Gas) 250 HP
 - D. 16,700 ACFM Baghouse controlling the Grain Elevator

2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations and testing shall be as follows:
 - A. Grain Elevator Baghouse

PM ₁₀	1.20 lbs/hr	.010 grains/dscf
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 - B. Use 201/201a in accordance with paragraph 2.1.A and retest every 3 years.

3. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:
 - A. Combined heat input (for all three boilers) shall not exceed 20,000 MMBTU per year.
 - B. Annual throughput of grain shall not exceed one million tons.

Records or operations logs of amounts of coal used and hours of operation shall be kept to determine compliance with the above limitations.

4. The owner/operator shall use only natural gas as primary fuel in the three boilers. The (large) Keeler boiler will be modified to burn natural gas or #2 fuel oil or better as back up fuel. Back up fuel oil shall not exceed 10% of the annual BTU energy required. The Keeler boiler will be permitted to burn coal if and only if both natural gas and fuel oil become unavailable. In such a case the owner/operator must notify the Executive Secretary within 48 hours. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UACR. The sulfur content of any fuel oil burned shall not exceed

0.45 pounds of sulfur per million BTU heat input as determined by ASTM Method D-4294-89). The sulfur content shall be tested if directed by the Executive Secretary.

5. Annual emissions for this source (the entire plant including fugitive emissions from all grain handling operations are hereby established at 11.2 tons/yr for PM_{10} , 0.47 tons/yr for SO_2 , 1.37 tons/yr for NO_x).

2.2.GG Morton Salt Company - 8800 West North Temple

1. The installations shall consist of only the following equipment:

- A. Stack #2, Salt Dryer Scrubber, NG Fired
- B. Stack #3, Silo Scrubber
- C. Stack #4, Pellet Forming Scrubber
- D. Stack #5, Block Plant Scrubber
- E. Stack #6, Mill Processing Scrubber
- F. Stack #7, Loadout and Bagger

2. Emissions to the atmosphere from the indicated emissions points shall not exceed the following rates and concentrations:

A.	Stack #2, Salt Dryer Scrubber, NG Fired		
	PM ₁₀	4.50 lbs/hr	0.061 grains/dscf
B.	Stack #3, Silo Scrubber		
	PM ₁₀	2.50 lbs/hr	0.0271 grains/dscf
C.	Stack #4, Pellet Forming Scrubber		
	PM ₁₀	2.0	0.019 grains/dscf
D.	Stack #5, Block Plant Scrubber		
	PM ₁₀	1.73 lbs/hr	0.038 grains/dscf
E.	Stack #6, Mill Processing Scrubber		
	PM ₁₀	2.80 lbs/hr	0.012 grains/dscf
F.	Stack #7, Loadout and Bagger		
	PM ₁₀	0.22 lbs/hr	0.016 grains/dscf

3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60,

Appendix A, 40 CFR 51, Appendix M (see paragraph 2.1.A. for more details), and as directed by the Executive Secretary:

	Method	Retest Every
A. Stack #2		
	PM ₁₀ 201/201a	3 years
B. Stack #3		
	PM ₁₀ 201/201a	3 years
C. Stack #4		
	PM ₁₀ 201/201a	3 years
D. Stack #5		
	PM ₁₀ 201/201a	3 years
E. Stack #6		
	PM ₁₀ 201/201a	2 years

For purposes of this condition SIP approval means approval of the SIP by the UACC.

4. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

- | | | |
|----|--------------------------------------------------|------------|
| A. | 75 tons/hr (Dryer only) | |
| B. | 250,000 tons/yr (Shipped tons) | |
| C. | Dryer Stack | #2 4500 Hr |
| | Silo Stack | #3 7200 Hr |
| | Pellet Stack | #4 7200 Hr |
| | Block Stack | #5 4000 Hr |
| | Mill Stack | #6 7200 Hr |
| | Bulk Stack | #7 7200 Hr |
| D. | 126 mmscf/yr natural gas and propane as back up. | |

Backup propane fuel shall not exceed 10% of the total plant fuel fired per year. Salt production, hours of operation and fuel consumption shall be determined by plant records. The records shall be kept on a daily basis, hours of operation shall be determined by supervisor monitoring and maintaining an operations log, and fuel consumption shall be determined by Mountain Fuel Company billing records and propane

purchase records.

5. The venturi pressure drop obtained during any compliance test on any scrubber shall be maintained as the minimum operating pressure drop until the next compliance demonstration stack test.
 - A. The scrubber venturi pressure drop shall be continuously monitored with equipment located such that an inspector can at any time safely read the output. The reading shall be accurate to within plus or minus 0.50 in. W.C.. The instrument shall be calibrated against a "U" tube manometer primary standard least once every 90 days.
6. All unpaved operational roads which are used by mobile equipment shall be sprayed with a brine solution as necessary to reduce fugitive dust.
7. The owner/operator shall use only natural gas and propane as backup fuel during periods of natural gas curtailment. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UACR.
8. Annual emissions for this source (the entire plant) are hereby established at 49.1 tons/yr for PM_{10} , 0.9 tons/yr for SO_2 , 18.3 tons/yr for NO_x .

2.2.HH Mountain Bell, Offices emergency diesel generators

1. The installations shall consist of only the following equipment:

- A. Eight Detroit Diesel Allison Series 149 Engine-Generator Sets
- B. Uninterruptable power system
- C. Other associated equipment

2. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

- A. 240,000 Kilowatt-hours per year

Records of the amount of power generated per year shall be maintained.

3. The sulfur content of diesel fuel oil burned in the equipment engines shall not exceed 0.21 pound of sulfur per million BTU heat input as determined by ASTM Method D-4294-89. (This represents 0.4% sulfur by weight in the fuel oil, 137,000 btu/gal, and 7.05 lb/gal). The sulfur content shall be tested if directed by the Executive Secretary. Fuel consumption shall be determined by company records of oil purchased and be submitted yearly to the Executive Secretary.

4. Annual emissions for this source (the entire plant) are hereby established at 0.31 tons/yr for PM_{10} , 0.46 tons/yr for SO_2 , 3.90 tons/yr for NO_x .

2.2.II Mountain Fuel Supply Co. (general office)

1. The installations shall consist of only the following equipment:
 - A. Five Garrett IE 831-800 natural gas fired turbine generators, four operate & one as standby
 - B. One Onan 100 KW emergency generator set
2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

A. Each of the Five engines:

NO _x	3.56 lbs/hr	2.54 grams/HP-hr
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3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, and as directed by the Executive Secretary:

Each of the five engines:

Method	Test Date
NO _x 7	Test If Directed

4. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

A. The production of 16,600 Megawatt hours of electricity per year.

Records of the amount of power generated per year shall be maintained.

5. Operation of only four of the five gas turbines, or the equivalent of 2,540 horsepower hours per hour (1,895 kW-hr/hr) shall be permitted at any given time.
6. The owner/operator shall use only natural gas as fuel in the turbine engines.
7. Annual emissions for this source (the entire plant) are hereby established at 2.5 tons/yr for PM₁₀, 1.4 tons/yr for SO₂, 71.1 tons/yr for NO_x.

2.2.JJ Mountain Fuel - 100 South 1078 West

1. The installations shall consist of only the following equipment:

- A. Three Garrett IE 831-800 natural gas fired turbine generators
- B. One Onan 250 KW emergency generator, diesel fired
- C. Two Waukesha VRG330 NG fired compressor engines
- D. One Goder 1220 incinerator

2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

A. Each of the three Garrett IE 831-800 engines:

NO _x	3.56 lbs/hr	2.54 grams/HP-hr
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3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, and as directed by the Executive Secretary:

A. Each of the three engines:

	Method	Test Date
NO _x	7	Test If Directed

4. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

The production of 8,300 Megawatt hours of electricity per year

5. Operation of only two of the three gas turbines, or the equivalent of 1,270 horsepower hours per hour (947 Kw-hr/hr) shall be permitted at any given time.

6. The owner/operator shall use only natural gas as fuel in the turbine engines.

7. Annual emissions for this source (the entire plant) are hereby established at 1.12 tons/yr for PM₁₀, 0.40 tons/yr for SO₂, 31.2 tons/yr for NO_x.

2.2.KK

Murray City Light & Power

1. The installations shall consist of only the following equipment:
 - A. 2,000 kW Fairbanks engine (engine #3), S.N. 950246
 - B. 1,045 kW Worthington engine (engine #4), S.N. VO-2676
 - C. 1,045 kW Worthington engine (engine #5), S.N. VO-2675
 - D. 2,400 kW Nordberg engine (engine #6), S.N. 2012-1072

2. The following production/consumption limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

A.	Power generated MW*hr/yr	total	14,425
B.	Fuel Oil Consumption	150,000	gallons/yr

3. A. This source shall use natural gas as primary fuel in all fuel burning furnaces, ovens and boilers. Number 2 fuel oil or better shall be used only as a pilot fuel or backup fuel to be used during natural gas curtailments and for maintenance firing. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UCAR. Fuel consumption shall be determined by gas meter readings and oil receiving and inventory records.

- B. On the first day of each month a new 12-month rolling total emissions inventory shall be compiled. The inventory shall be based on the previous 12-month rolling total operation and the appropriate emission factors and engine settings for each engine.

The appropriate emission factors, intake manifold pressure, cylinder exhaust temperatures, and pilot rack settings for each engine shall be established for minimum emissions operation through testing using a portable monitoring system or equivalent. The intake manifold pressure, cylinder exhaust temperatures, and pilot rack settings for each engine shall be used whenever the engine is operated.

If the total NO_x emissions exceeds 200 tpy for the previous 12 months, the source shall submit a report of the emissions to the Executive Secretary within 30 days. Within 90 days the source shall submit to the Executive Secretary for approval a plan with proposed specifications for the installation, calibration, and maintenance of a continuous emissions monitoring system (CEMS) for NO_x. The CEM shall be on line within 12 months following the approval of the plan.

4. Annual emissions for this source (the entire plant) are hereby established at 1.62 tons/yr for PM₁₀, 2.38 tons/yr for SO₂, 250 tons/yr for NO_x.

2.2.LL Ostler Rocky Mountain Refractory Company,

1. The installations shall consist of the following equipment located at the site:

- A. Two Dryers
- B. Two Crushers
- C. Ball Mill
- D. Concrete Screen/Mixer
- E. Cement Silo
- F. Storage Piles
- G. Material Handling Equipment

2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

A. Dryer/Crusher Baghouse Vent			
	PM ₁₀	0.54 lbs/hr	0.016 grains/dscf
B. Ball Mill Baghouse Vent			
	PM ₁₀	1.74 lbs/hr	0.016 grains/dscf
C. Screen/Mixer Baghouse Vent			
	PM ₁₀	0.14 lbs/hr	0.016 grains/dscf

3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, 40 CFR 51, Appendix M (see paragraph 2.1.A. for more details), and as directed by the Executive Secretary:

	Method	Retest every
A. Dryer/Crusher		
	PM ₁₀ 201/201a	5 years
B. Ball Mill		
	PM ₁₀ 201/201a	5 years
C. Screen/Mixer		
	PM ₁₀ 201/201a	Test if directed

4. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

A. Clay/Barite Drying and Crushing

1)	11	tons/hr
2)	45,886	tons/yr
3)	16	hours/day
4)	4,171	hours/yr

B. Ball Mill Grinding

1)	11	tons/hr
2)	45,886	tons/yr
3)	16	hours/day
4)	4,171	hours/yr

C. Concrete Mixing/Screening

1)	6.5	tons/hr
2)	27,000	tons/yr
3)	16	hours/day
4)	4,171	hours/yr

5. The following operating parameter shall be maintained within the indicated ranges:

Dryer baghouse exit temperature greater than 250°F

They shall be monitored with equipment located such that an inspector can at any time safely read the output. The readings shall be accurate to within the following ranges:

Plus or minus 5.0 degrees fahrenheit

6. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

- A. Spray bar #1 - A two-nozzle spray located at the top or the inclining bucket elevator #1. The elevator shall be enclosed.
- B. Spray bar #2 - A two-nozzle spray located at the transfer area in the loading chute to bucket elevator #3. The feeder chute entrance to the base of the #3 elevator pickup point shall be enclosed.

- C. Spray bar #3 - A two-nozzle spray located in the loading chute to the screening area. The screening area shall be enclosed.
- D. Spray bars #4 and #5 - One nozzle spray located in each of the discharge hoppers from the screening area.
- E. Spray bar #6 - A two nozzle spray located at the transfer point from belt #2 in the transfer chute to the roll crusher #1. The entrance to chute #1 shall be enclosed.
- F. Spray bar #7 - A two nozzle spray located in the discharge chute from the roll crusher #1. The roll crusher #1 shall be enclosed.
- G. Additional sprays shall be installed at the following locations as determined necessity by the Executive Secretary:
 - 1) Loading chute at belt #1
 - 2) Discharge chute from the screen to belt #2
 - 3) Discharge chute from the jaw crusher to elevator #1

The sprays shall operate to the extent necessary to keep the emissions from the equipment equal to or less than the opacity limitations of 2.1.B

- 7. The moisture content of the clay/barite shall be maintained at a value of no less than 3.0% by weight. The silt content of the product shall not exceed 10.0% by weight without prior approval in accordance with Section 3.1, UACR. The moisture and silt content shall be tested if directed by the Executive Secretary using the appropriate ASTM methods.
- 8. The owner/operator shall use only natural gas or propane as a fuel in the dryers. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UACR.
- 9. Annual emissions for this source (the entire plant) are hereby established at 5.8 tons/yr for PM₁₀, and 3.8 tons/yr for NO_x.

2.2.ZZ Utah Metal Works, Inc., - 805 Everett Ave. Salt Lake

1. The installations shall consist of only the following equipment:

- A. Wire Chopper and associated Baghouse and Cyclone
- B. Incinerator (for burning wire insulation)
- C. Aluminum Furnace

2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

A. Baghouse

PM ₁₀	1.07 lbs/hr	.020 grains/dscf
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B. Incinerator

PM ₁₀	3.02 lbs/hr	.080 grains/dscf
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3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, 40 CFR 51, Appendix M (see paragraph 2.1.A. for more details), and as directed by the Executive Secretary:

Method

Retest every

A. Baghouse

PM ₁₀	201/201a	3 years
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B. Incinerator

PM ₁₀	201/201a	3 years
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C. Aluminum Furnace

PM ₁₀	201/201a	Test If Directed
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4. The following production limits shall not be exceeded without prior approval in accordance with Section 3.1, UACR:

For the Baghouse and Incinerator:

A. 8 hours/day

B. 2,080 hours/yr

For the Aluminum Furnace:

A. 12 hours/day

B. 900 hours/yr

Records of production shall be made available to the Executive Secretary upon request, and shall include a period of two years ending with the date of the request. Hours of operation shall be determined by supervisor monitoring and maintaining an operations log.

5. The owner/operator shall use only natural gas or propane as fuel in the incinerator and in the furnace. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UACR.
6. The baghouse flow rate shall be measured at the request of the Executive Secretary. The method shall be 40 CFR 60, Appendix A, Method 2.
7. The particulate captured in the baghouse and cyclone shall be properly handled in order to prevent re-entrainment into the atmosphere.
8. Annual emissions for this source (the entire plant) are hereby established at 4.27 tons/yr for PM_{10} , 0.01 tons/yr for SO_2 , 0.98 tons/yr for NO_x .

2.2.AAA Utah Power and Light - 40 N. 100 W.

1. The installations shall consist of only the following equipment:
 - A. Two Boilers (30,000 lb steam per hour).
2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:

- A. Each of the two boilers:

NO _x	6.26 lbs/hr	143	ppmdv
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3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, and as directed by the Executive Secretary:

- A. Each of the two boilers:

	Method	Test Date
NO _x	7	Test If Directed

4. This source shall use natural gas as primary fuel in all fuel burning furnaces, ovens and boilers. Number 2 fuel oil or better shall be used only as a backup fuel to be used during natural gas curtailments and for maintenance firing. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UCAR. Fuel consumption shall be determined by gas meter readings and oil receiving and inventory records.

The number 2 fuel oil may be used only during periods of natural gas curtailment, and for maintenance firings. Maintenance firings shall not exceed 1% of the annual plant BTU requirements. Records of fuel oil use shall be kept which shows the date the oil was fired, the duration in hours the oil was fired, the amount of fuel oil consumed and the reason for each firing.

5. Annual emissions for this source (the entire plant) are hereby established at 1.96 tons/yr for PM₁₀, 0.23 tons/yr for SO₂, 54.8 tons/yr for NO_x.

2.2.CCC Veterans Administration Medical Center

1. The installations shall consist of only the following equipment:
 - A. Three Boilers (24.8 MMBTU/HR each)
 - B. One Pathological Waste Incinerator
2. Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations:
 - A. Any of the Three Boilers

NO_x 3.70 lbs/hr 143 ppm_{dv}

If more than one boiler is firing then the emission rate and concentration limitations shall be the sum of their individual limitations.

3. Stack testing to show compliance with the above emission limitations shall be performed for the following emission points and air contaminants, as determined by the following test methods in accordance with 40 CFR 60, Appendix A, 40 CFR 51, Appendix M (see paragraph 2.1.A. for more details), and as directed by the Executive Secretary:

A. Boilers

Method	Test Date
NO _x 7	Test If Directed

4. This source shall use natural gas as primary fuel in all fuel burning furnaces, ovens and boilers. Number 2 fuel oil or better shall be used only as a backup fuel to be used during natural gas curtailments and for maintenance firing. If any other fuel is to be used, an approval order shall be required in accordance with Section 3.1, UCAR. Fuel consumption shall be determined by gas meter readings and oil receiving and inventory records.

The number 2 fuel oil may be used only during periods of natural gas curtailment, and for maintenance firings. Maintenance firings shall not exceed 1% of the annual plant BTU requirements. Records of fuel oil use shall be kept which shows the date the oil was fired, the duration in hours the oil was fired, the amount of fuel oil consumed and the reason for each

firing.

5. The quantity of fuel oil burned shall not exceed 50,000 gal/yr. Compliance with this annual limitation shall be determined on a rolling-monthly total. On the first day of each month a new 12-month total shall be calculated using the previous 12 months. Records of consumption shall be kept for all periods when the plant is in operation. Records of consumption shall be made available to the Executive Secretary upon request, and shall include a period of two years ending with the date of the request. Fuel oil consumption shall be determined by evaluating sales receipts.
6. The following operating parameters shall apply to the pathological incinerator:
 - A. The charge rate shall not exceed 250 lbs/hr
 - B. The temperature in the secondary chamber shall be maintained at no less than 1,800°F and at no greater than 2,000°F

Records of the quantities of refuse incinerated and the hours of operation shall be kept on a daily basis and shall be made available to the Executive Secretary upon request. They shall include a period of two years ending with the date of the request. Refuse destruction shall be determined by weighing the material before its disposal. Hours of operation shall be determined by supervisor monitoring and maintaining an operations log. The temperature of the secondary chamber shall be monitored by equipment located such that an inspector can at any time safely read the output. The reading shall be accurate to within plus or minus 50°F. The instrument shall be calibrated against a primary standard at least once every 90 days. The primary standard shall be specified by the Executive Secretary.

7. Annual emissions for this source (the entire plant) are hereby established at 0.50 tons/yr for PM_{10} , 0.04 tons/yr for SO_2 , 9.88 tons/yr for NO_x .