Nevada Department of Conservation and Natural Resources • Division of Environmental Protection

BUREAU OF AIR POLLUTION CONTROL

901 SOUTH STEWART STREET SUITE 4001
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Facility ID No. A0005 Draft *Permit No.* AP1041-0739.02

CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS

Issued to: BARRICK GOLDSTRIKE MINES, INC., **hereafter called the Permittee**
Mailing Address: P.O. BOX 29, ELKO, NEVADA 89803
Physical Address: 27 MILES NORTH OF CARLIN, NEVADA OFF STATE ROUTE 766.
General Facility Location:

SECTIONS 1-4, T 35N, R 49E
SECTIONS 12-15, 21-28, AND 33-36, T 36N, R 49E
SECTIONS 7-9, 16-21, AND 28-32, T 36N, R 50E, MDB&M (HA 61: BOULDER FLAT) (EUREKA COUNTY)
NORTH 4,538.50 km, EAST 552.10 km; UTM ZONE 11 (NAD 83)

Emission Unit List:

A. System 01 - Mill #1 Lime Silo		
S	2.001	Lime silo, 120 ton, loading
PF	1.009	Lime silo, 120 ton, discharge to screw conveyor
PF	1.009.1	Lime silo, 120 ton, screw conveyor transfer to mill conveyor

B. System 02 – Boulder Valley Water Treatment Plant Lime Silo		
S	2.080	Lime silo, 500 ton, loading
PF	1.027	Lime silo, 500 ton, discharge to screw conveyor
PF	1.028	Lime silo, 500 ton, screw conveyor transfer to mill conveyor

C. System 03 – Removed as part of the Renewal Process

D. System 04 - Boilers #2 and #3 Autoclave Circuit		
S	2.022	Boiler #2, Foster Wheeler model No. AG-5110B
S	2.023	Boiler #3, Foster Wheeler model No. AG-5110B

E. System 05 - Boiler #4 Autoclave Circuit		
S	2.024	Boiler #4, Foster Wheeler model No. AG-5175C

F. System 06 - Autoclave Lime Silo #5		
S	2.031.1	Lime silo #5, 28 ton, loading
PF	1.021.1	Lime silo #5, 28 ton, discharge to screw conveyor
PF	1.021.2	Lime silo #5, 28 ton, screw conveyor transfer

G. System 07 – Mill #2 Lime Silo		
S	2.002	Lime silo, 120 ton, loading
PF	1.016	Lime silo, 120 ton, discharge to screw conveyor
PF	1.016.1	Lime silo, 120 ton, screw conveyor transfer

H. System 08 - Magnesium Oxide Silo Boulder Valley Water Treatment Plant		
S	2.081	Magnesium oxide silo, 200 ton, loading
PF	1.029	Magnesium oxide silo, 200 ton, discharge to screw conveyor
PF	1.030	Magnesium oxide silo, 200 ton, screw conveyor transfer

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Emission Unit List (continued)

I. System 09 - Roaster Primary Crushing and Conveyance			
S	2.201.1	Dump hopper
S	2.201.2	Gyratory crusher
S	2.201.3	Apron feeder
S	2.201.4	Transfer conveyor transfer to feed conveyor
S	2.201.5	Baghouse hopper transfer to feed conveyor

J. System 10 - Roaster Dump Hopper			
PF	1.201	Primary crusher dump hopper loading (process fugitive emissions)

K. System 11 - Roaster Secondary Crushing and Conveyance			
S	2.202.1	Feed conveyor transfer to screen
S	2.202.2	Screen
S	2.202.3	Screen transfer to stacking conveyor
S	2.202.4	Cone crusher
S	2.202.5	Cone crusher transfer to stacking conveyor
S	2.202.6	Baghouse hopper transfer to stacking conveyor

L. System 12 - Roaster Crushed Ore Conveyance			
PF	1.202	Coarse ore stacking conveyor

M. System 13 - Ore/Lime Mills Feed Process			
S	2.203.1	Mill #1 apron feed system transfer
S	2.203.2	Mill #2 apron feed system transfer
S	2.203.3	Emergency Mill #1 apron feed system transfer
S	2.203.4	Emergency Mill #2 apron feed system transfer
S	2.203.5	Lime transfer to Mill #1 or Mill #2 belt conveyor
S	2.203.6	Baghouse hopper transfer to Mill #2 feed conveyor

N. System 14 - Emergency Reclaim Hoppers (Loading) Process			
PF	1.203.1	Mill #1 hopper
PF	1.203.2	Mill #2 hopper

O. System 15A - Roaster Mill Circuit: Mill #1 Air Pre-heater			
S	2.204	Mill #1 air pre-heater

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Emission Unit List (continued)

O. System 15B - Roaster Mill Circuit: Mill #1 Dry Grinding Process		
S	2.205.01	Mill #1 feed conveyor
S	2.205.02	Mill #1 double rotator grinding mill
S	2.205.03	Mill #1 grinding mill to bucket elevator air slide system
S	2.205.04	Mill #1 bucket elevator
S	2.205.05	Mill #1 bucket elevator to dynamic classifier air slide system
S	2.205.06	Mill #1 dynamic classifier
S	2.205.07	Mill #1 dynamic classifier to grinding mill air slide system
S	2.205.08	Mill #1 product recovery baghouse to roaster #1 silo air slide system
S	2.205.09	Mill #1 pick-up point baghouse to roaster #1 silo air slide system
S	2.205.10	Mill #1 static classifier
S	2.205.11	Roaster #1 silo
S	2.205.12	Ball chip removal system

P. System 16A - Roaster Mill Circuit: Mill #2 Air Pre-heater		
S	2.206	Mill #2 air pre-heater

P. System 16B - Roaster Mill Circuit: Mill #2 Drying Grinding Process		
S	2.207.01	Mill #2 feed conveyor
S	2.207.02	Mill #2 double rotator grinding mill
S	2.207.03	Mill #2 grinding mill to bucket elevator air slide system
S	2.207.04	Mill #2 bucket elevator
S	2.207.05	Mill #2 bucket elevator to dynamic classifier air slide system
S	2.207.06	Mill #2 dynamic classifier
S	2.207.07	Mill #2 dynamic classifier to grinding mill air slide system
S	2.207.08	Mill #2 product recovery baghouse to roaster #2 silo air slide system
S	2.207.09	Mill #2 pick-up point baghouse to roaster #2 silo air slide system
S	2.207.10	Mill #2 static classifier
S	2.207.11	Roaster #2 silo
S	2.207.12	Ball chip removal system

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Emission Unit List (continued)

Q. System 17 - Roaster Circuit: Roaster #1 and Roaster #2 Feed Process			
S	2.208.01	Roaster #1 silo to feed box air slide system	
S	2.208.02	Feed box to roaster #1 belt air slide system	
S	2.208.03	Roaster #1 belt	
S	2.208.04	Roaster #1 belt to bucket elevator air slide system	
S	2.208.05	Roaster #1 bucket elevator	
S	2.208.06	Roaster #1 elevator to fluidized feeder air slide system	
S	2.208.07	Roaster #1 fluidized feeder	
S	2.208.08	Roaster #1 baghouse hopper transfer to feed box	
S	2.208.09	Coal transfer to roaster #1 - bucket elevator	
S	2.208.10	Roaster #2 silo to feed box air slide system	
S	2.208.11	Feed box to roaster #2 belt air slide system	
S	2.208.12	Roaster #2 belt	
S	2.208.13	Roaster #2 belt to bucket elevator air slide system	
S	2.208.14	Roaster #2 bucket elevator	
S	2.208.15	Roaster #2 elevator to fluidized feeder air slide system	
S	2.208.16	Roaster #2 fluidized feeder	
S	2.208.17	Roaster #2 baghouse hopper transfer to feed box	
S	2.208.18	Coal transfer to roaster #2 - bucket elevator	

R. System 18 - Roaster Circuit: Ore Roasting Process			
S	2.209.1	Roaster #1	
S	2.209.2	Roaster #2	

S. System 19 - Roaster Circuit: Quenching Process			
S	2.210	Roaster #1 quench tank	
S	2.211	Roaster #2 quench tank	

T. System 20 - Ancillary Roaster Processes: Coal Silo			
S	2.212	Coal silo, 200 ton, loading	
PF	1.204	Coal silo discharge to screw conveyor	

U. System 21 - Ancillary Roaster Processes: Propane Vaporizers			
S	2.213	Propane vaporizer #1	
S	2.214	Propane vaporizer #2	
S	2.215	Propane vaporizer #3	

V. System 22 - Ancillary Roaster Processes: Slaked Lime Silo			
S	2.216	Lime silo, slaking, 1,000 ton, loading	
PF	1.205	Lime silo, slaking, discharge to screw conveyor	

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Emission Unit List (continued)

W. System 23 - Ancillary Roaster Processes: Roaster Mill Lime Silo			
S	2.217	Roaster mill lime silo, 500 ton, loading
PF	1.206	Roaster mill lime silo discharge to mill #1 screw conveyor
PF	1.207	Roaster mill lime silo discharge to mill #2 screw conveyor
X. System 24 - Ancillary Roaster Processes: Soda Ash Silo			
S	2.218	Soda ash silo, 200 ton, loading
PF	1.208	Soda ash silo discharge to screw conveyor
Y. System 25 - Ancillary Roaster Processes: Fuel Oil Storage			
S	2.219	Fuel Oil storage tank, 16,000 gallon capacity
Z. System 26 - Ancillary Roaster Processes: Liquid Oxygen Vaporizer			
S	2.220	Liquid oxygen vaporizer
AA. System 27 - Ancillary Roaster Processes: Vacuum Housekeeping System			
S	2.221	Vacuum housekeeping system
AB. System 28 - Ancillary Roaster Processes: Scrubber Water Cooling Tower			
S	2.222	Scrubber water cooling tower
AC. System 29 - Ancillary Roaster Processes: Quench Water Cooling Tower			
S	2.223	Quench water cooling tower
AD. - AV. Systems 30 through 48 – Removed from Permit on January 3, 2002			
AW. System 49 - Meikle Backfill/Cement Feed Plant Feed Hopper			
PF	1.119	Feed hopper (loading)
PF	1.120	Feed hopper (discharge)
AX. System 50 - Meikle Backfill/Cement Feed Plant Feed Conveyor			
PF	1.121	Feed conveyor (discharge)
AY. System 51 - Meikle Backfill/Cement Feed Plant Silo #1			
S	2.101	Cement/ash silo #1 (loading)
PF	1.122	Cement/ash silo #1 (discharge)
PF	1.122.1	Cement/ash silo #1 (screw conveyor transfer)
AZ. System 52 - Meikle Backfill/Cement Feed Plant Silo #2			
S	2.102	Cement/ash silo #2 (loading)
PF	1.123	Cement/ash silo #2 (discharge)
PF	1.123.1	Cement/ash silo #2 (screw conveyor transfer)
BA. System 53 - Surface Concrete Batch Plant Cement/Fly Ash Silo - Removed from permit November 2006			

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Emission Unit List (continued)

BB. System 54 - Surface Concrete Batch Plant Cement/Fly Ash Silo - Removed from permit November 2006

BC. System 55 - Surface Concrete Batch Plant - Removed from permit November 2006

BD. System 56 - Surface Concrete Batch Plant - Removed from permit November 2006

BE. System 57 – Removed: Not constructed, removed from inventory November 19, 1999.

BF. System 58 - Surface Concrete Batch Plant - Removed from permit November 2006

BG. System 59 - Meikle Shotcrete Load-out Station

PF	1.325	Delivery truck (discharge)

BH. System 60 - Meikle Shotcrete Loadout Station

PF	1.326	Screw conveyor (discharge)

BI. System 61 - Carbon Reactivation Kiln #2

S	2.004.1	Carbon kiln #2 drum
S	2.004.2	Carbon kiln #2 burner

BJ. System 62 - Meikle Production Shaft

PF	1.101	Skips - discharge/transfer to upper chute
PF	1.102	Upper chute discharge - transfer to one of two transfer cars
PF	1.103	Transfer cars discharge - transfer to one of two lower chutes
PF	1.104	Bins loading - lower chutes discharge to one of two bins
PF	1.105	Bins discharge - transfer to haul truck

BK. System 63 – Autoclave Silos #1 through #4

S	2.028	Silo #1, 250 ton, loading
PF	1.018	Silo #1, 250 ton, discharge
S	2.029	Silo #2, 500 ton, loading
PF	1.019	Silo #2, 500 ton, discharge
S	2.030	Silo #3, 500 ton, loading
PF	1.020	Silo #3, 500 ton, discharge
S	2.031	Silo #4, 1,000 ton, loading
PF	1.021	Silo #4, 1,000 ton, discharge

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Emission Unit List (continued)

BL. System 64 - Mill #1 Primary and Tertiary Crushing Process			
PF	1.001	Ore hopper
PF	1.003	Jaw crusher
PF	1.004	Apron feeder
PF	1.005	Cone crusher
PF	1.005.01	Conveyor (cone outlet)
PF	1.006	Conveyor #001 (jaw outlet)
PF	1.007	Conveyor/radial stacker #002
PF	1.008	Conveyor #003 (mill inlet)
PF	1.008.1	Apron feeders (load and discharge)

BM. System 65 - Mill #2 Primary and Tertiary Crushing Process			
PF	1.010	Conveyor #304 (fixed stacker)
PF	1.011	Dump pocket
PF	1.012	Gyratory crusher
PF	1.013	Conveyor #101 (gyratory outlet)
PF	1.014	Cone crusher
PF	1.014.1	Conveyor (cone outlet)
PF	1.015	Conveyor #301 (mill inlet)
PF	1.015.1	Apron feeders (loading and discharge)

BN. System 66 - Autoclave Circuit			
S	2.015	Autoclave #1
S	2.016	Autoclave #2
S	2.017	Autoclave #3
S	2.018	Autoclave #4
S	2.019	Autoclave #5
S	2.020	Autoclave #6

BO. System 67 - Mercury Retorts			
S	2.009	Mercury retort #1
S	2.010	Mercury retort #2
S	2.011	Mercury retort #3

BP. System 68 - Furnaces			
S	2.013	West melting furnace
S	2.014	East melting furnace

BQ. System 69 - Analytical Laboratories Sample Preparation			
S	2.033.1	Crushers
S	2.033.2	Pulverizers
S	2.033.3	Sample reject conveyor

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Emission Unit List (continued)

BR. System 70 - Analytical Laboratory, Fire Assay Facility			
S	2.051.1	Assay furnaces
S	2.051.2	Tumbler
S	2.051.3	Mixed flux dispenser
S	2.051.4	Drag conveyor
S	2.051.5	Furnace tables
S	2.051.6	Waste crusher

BS. System 71 - Metallurgical Laboratory Sample Preparation			
S	2.067.1	Crusher
S	2.067.2	Crusher
S	2.067.3	Pulverizer

BT. System 72 - Metallurgical Laboratory, Fire Assay Facility			
S	2.074	Bench-top roasters

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Emission Unit List (continued)

BU. System 73 - AA Block Heap Leach Lime Silo – Removed from Permit on December 27, 2005

BV. System 74 - Propane Vaporizers

S	2.025	Propane vaporizer #1
S	2.026	Propane vaporizer #2
S	2.027	Propane vaporizer #3

BW. System 75 - Fuel Storage Tanks

S	2.080	Fuel oil storage tank, 150,000 gallons
S	2.081	Fuel oil storage tank, 250,000 gallons
S	2.082	Gasoline storage tank, 12,000 gallons
S	2.083	Fuel oil storage tank, 34,200 gallons

BX. System 76 - Meikle Mine Air Heaters

S	2.104	Air heater #1
S	2.105	Air heater #2
S	2.106	Air heater #3
S	2.107	Air heater #4

BY. System 77 - Rodeo Shaft

PF	1.125	Skip (discharge)
PF	1.126	Chute (discharge)

BZ. System 78 - Cooling Tower

S	2.224	Oxygen plant cooling tower

CA. - CB. Systems 79 and 80 – Removed as part of the Renewal Process

CC. System 81 - Rodeo Backfill Mixing Plant Cement/Fly Ash Silos #1 and #2

S	2.303	Cement/fly ash silo #1 (loading)
S	2.304	Cement/fly ash silo #2 (loading)
PF	1.335	Cement/fly ash silo #1 discharge/transfer to screw conveyor
PF	1.336	Cement/fly ash silo #2 discharge/transfer to screw conveyor

CD. System 82 - Rodeo Backfill Mixing Plant Slurry Mixer

PF	1.340	Mixer loading

CE. - CF. Systems 83 and 84 – Removed from Permit on January 3, 2002

CG. System 85 - Rodeo Backfill Feed Plant Aggregate Feed

PF	1.347	Feed hopper loading

CH. System 86 - Rodeo Shotcrete Loadout Station

PF	1.350	Delivery truck discharge
PF	1.351	Screw conveyor discharge

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Emission Unit List (continued)

CI. System 87 - Rodeo Mine Air Heaters			
S	2.307	Mine air heater #1	
S	2.308	Mine air heater #2	
S	2.309	Mine air heater #3	
S	2.310	Mine air heater #4	

CJ. System 88 - Backup Crushing System			
PF	1.352	Crusher feeder (load)	
PF	1.353	Crusher feeder (discharge)	
PF	1.354	Primary crusher	
PF	1.355	Crusher outlet conveyor transfer	
PF	1.356	Conveyor transfer	
PF	1.357	Hopper (load)	
PF	1.358	Hopper (discharge)	
PF	1.359	Conveyor transfer	

CK. System 89 – Removed from Permit on January 3, 2002

CL. System 90 - Electric Power Generators			
S	2.311.1	Diesel-fueled engine electric generator #1 (autoclave) (MP-750, Autoclave)	
S	2.311.2	Diesel-fueled engine electric generator #2 (autoclave) (MP-598, Autoclave)	
S	2.311.3	Diesel-fueled engine electric generator #3 (autoclave) (MP-606, Autoclave)	
S	2.311.4	Diesel-fueled engine electric generator #4 (autoclave) (MP-607, Autoclave)	

CM. System 91 - Electric Power Generators		
S	2.312.1	Diesel-fueled engine electric generator #5 (Mill) (MP-608, Mill)
S	2.312.2	Diesel-fueled engine electric generator #10 (Meikle) (KCG-002, Meikle)

CN. System 92 - Electric Power Generators		
S	2.313.1	Diesel-fueled engine electric generator #6 (Roaster) (MP-610, Roaster)
S	2.313.2	Diesel-fueled engine electric generator #7 (Roaster) (MP-705, Roaster)
S	2.313.3	Diesel-fueled engine electric generator #8 (Roaster) (MP-706, Roaster)
S	2.313.4	Diesel-fueled engine electric generator #9 (Rodeo) (MP-704, Rodeo)

Removed S2.313.5 Diesel-fueled engine electric generator #12 (Boulder Valley) as part of renewal process

CO. System 93 – Removed as part of the Renewal Process

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Emission Unit List (continued)

Emissions Cap: Systems 90, 91 & 92 - Electric Power Generators (See Section VII.B)		
S	2.311.1	Diesel-fueled engine electric generator #1 (autoclave) (MP-750, Autoclave)
S	2.311.2	Diesel-fueled engine electric generator #2 (autoclave) (MP-598, Autoclave)
S	2.311.3	Diesel-fueled engine electric generator #3 (autoclave) (MP-606, Autoclave)
S	2.311.4	Diesel-fueled engine electric generator #4 (autoclave) (MP-607, Autoclave)
S	2.312.1	Diesel-fueled engine electric generator #5 (Mill) (MP-608, Mill)
S	2.312.2	Diesel-fueled engine electric generator #10 (Meikle) (KCG-002, Meikle)
S	2.313.1	Diesel-fueled engine electric generator #6 (Roaster) (MP-610, Roaster)
S	2.313.2	Diesel-fueled engine electric generator #7 (Roaster) (MP-705, Roaster)
S	2.313.3	Diesel-fueled engine electric generator #8 (Roaster) (MP-706, Roaster)
S	2.313.4	Diesel-fueled engine electric generator #9 (Rodeo) (MP-704, Rodeo)

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Emission Unit List (continued)

CP. System 95 - Backfill Crushing and Screening Plant		
PF	1.400-.401	Jaw crusher pan feeders 1 and 2 (load)
PF	1.402-.403	Jaw crusher pan feeders 1 and 2 (discharge)
PF	1.404-.405	Jaw crushers 1 and 2
PF	1.406	Cone crusher 1 and transfer belts
PF	1.408-.409	Screens 1 & 2 and transfer belts
PF	1.411	Truck load-out surge bin (discharge)
PF	1.415-.416	Jaw Crusher outlet conveyors 1 and 2
PF	1.417-.425	Conveyor transfers
PF	1.433	Stacker conveyor transfer
PF	1.434	Conveyor transfer

CQ. System 96 - Shotcrete Plant with Aggregate Dryer – Removed as part of the Renewal Process

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Emission Unit List (continued)

CR.	**System 97 - Intermediate Crushing System (Mill #1 & #2)**		
PF	1.457.1	Feed hopper and feeder (load)	
PF	1.457.2	Feed hopper and feeder (discharge)	
PF	1.458	Conveyor transfer	
PF	1.459	Multi-deck screen	
PF	1.460	Multi-deck screen under conveyor transfer	
PF	1.461	Conveyor transfer	
PF	1.462	Conveyor transfer	
PF	1.463	Cone crusher	
PF	1.464	Stacker conveyor	
CS.	**System 98 – Indoor Air Dust Removal System**		
S	2.084	Dust Removal System	
CT.	**System 99A – Portable Batch Plant A**		
S	2.085	Cement Silo/Guppy #1 Loading	
PF	1.465	Cement Silo/Guppy #1 transfer to Silo/Guppy #1 Conveyor	
PF	1.466	Silo/Guppy #1 Conveyor Discharge	
CU.	**System 99B – Portable Batch Plant B**		
S	2.086	Cement Silo/Guppy #2 Loading	
PF	1.467	Cement Silo/Guppy #2 transfer to Silo/Guppy #2 Conveyor	
PF	1.468	Silo/Guppy #2 Conveyor Discharge	
CV.	**System 99C – Portable Batch Plant C**		
PF	1.469	Bin Loading	
PF	1.470	Bin transfer to Bin Conveyor	
CW.	**System 99D – Portable Batch Plant D - Removed March 30, 2007**		
CX.	**System 99E – Portable Batch Plant E - Removed March 30, 2007**		
CY.	**System 99F – Portable Batch Plant F**		
PF	1.476	Central Mixer Loading	
CZ.	**System 100 - Meikle Backfill/Cement Feed Plant Silo #3**		
S	2.087	Silo #3 Loading	
PF	1.477	Silo #3 transfer to Silo #3 Conveyor	
PF	1.478	Silo #3 Conveyor Discharge	

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Emission Unit List (continued)

DA. System 101 - Meikle Shotcrete Loadout Station Extension			
PF	1.479	Conveyor #2 Discharge
PF	1.480	Conveyor #3 Discharge

DB. System 102 – Rodeo Shotcrete Loadout Station Silo #1			
S	2.088	Silo #1 Loading
PF	1.481	Silo #1 transfer to Silo #1 Conveyor
PF	1.482	Silo #1 Conveyor Discharge

DC. System 103A – Ore Fines Feed System			
PF	1.483	Hopper (Loading)
PF	1.484	Hopper (discharge)
PF	1.485	Screw Conveyor transfer to Bucket Elevator

DD. System 103B – Ore Fines Feed System (Ore Fines Drying and Storage System)			
S	2.316.1	Fluid Bed Dryer
S	2.316.2	Surge Bin
S	2.316.3	Dense Phase Pneumatic Conveying System
S	2.316.4	Ore Fines Silo, 30 ton (loading)

DE. System 104 – Fuel Oil Storage Tank			
S	2.317	Fuel Oil Storage Tank, 250,000 gallons

DF. System 105 - Mobile Boiler			
S	2.318	Mobile Boiler, 13.2 MMBtu

DG. System 106 – Autoclave Mixing Tank			
S	2.319	Autoclave Mixing Tank Loading

DH. System 107 – Additional Equipment for Intermediate Crushing System (Mill #1 & #2)			
PF	1.486	Conveyor transfer
PF	1.487	Conveyor transfer
PF	1.488	Cone Crusher
PF	1.489	Conveyor transfer
PF	1.490	Multi-deck Screen

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Section VI. Specific Operating Conditions (continued)

CR. Emission Units PF1.457 through PF1.464 Location North 4,536.2 km, East 554.7 km, UTM (Zone 11)

CR.	**System 97 - Intermediate Crushing System (Mill #1 & #2)**	
PF	1.457.1	Feed hopper and feeder (load)
PF	1.457.2	Feed hopper and feeder (discharge)
PF	1.458	Conveyor transfer
PF	1.459	Multi-deck screen
PF	1.460	Multi-deck screen under conveyor transfer
PF	1.461	Conveyor transfer
PF	1.462	Conveyor transfer
PF	1.463	Cone crusher
PF	1.464	Stacker conveyor

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Equipment
   a. Emissions from **PF1.457.1 and PF1.459** each will be controlled by pneumatic water sprays.
   b. Emissions from **PF1.464** will be controlled by pneumatic water sprays.
   c. Emissions from **PF1.457.2, PF1.458 and PF1.460 through PF1.463** each will be controlled by enclosures.

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **PF1.457.1**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.457.1**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.024** pound per hour, nor exceed **0.103** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.067** pound per hour, nor exceed **0.295** ton per year, based on a 12-month rolling period.
   b. On and after the date of startup of **PF1.457.2**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.457.2**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.044** pound per hour, nor exceed **0.194** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.127** pound per hour, nor exceed **0.556** ton per year, based on a 12-month rolling period.
   c. On and after the date of startup of **PF1.458**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.458**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.044** pound per hour, nor exceed **0.194** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.127** pound per hour, nor exceed **0.556** ton per year, based on a 12-month rolling period.
   d. On and after the date of startup of **PF1.459**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.459**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.420** pound per hour, nor exceed **1.840** tons per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.882** pound per hour, nor exceed **3.863** tons per year, based on a 12-month rolling period.
   e. On and after the date of startup of **PF1.460**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.460**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.044** pound per hour, nor exceed **0.194** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.127** pound per hour, nor exceed **0.556** ton per year, based on a 12-month rolling period.

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Section VI. Specific Operating Conditions (continued)

CR. Emission Units PF1.457 through PF1.464 (continued)

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   f. On and after the date of startup of **PF1.461**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.461**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.044** pound per hour, nor exceed **0.194** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.127** pound per hour, nor exceed **0.556** ton per year, based on a 12-month rolling period.
   g. On and after the date of startup of **PF1.462**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.462**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.044** pound per hour, nor exceed **0.194** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.127** pound per hour, nor exceed **0.556** ton per year, based on a 12-month rolling period.
   h. On and after the date of startup of **PF1.463**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.463**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.295** pound per hour, nor exceed **1.292** tons per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.620** pound per hour, nor exceed **2.713** tons per year, based on a 12-month rolling period.
   i. On and after the date of startup of **PF1.464**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.464**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.024** pound per hour, nor exceed **0.103** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.067** pound per hour, nor exceed **0.295** ton per year, based on a 12-month rolling period.
   j. NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from **PF1.457 through PF1.464** each will not equal or exceed **20%** in accordance with NAC 445B.22017.
   k. New Source Performance Standards (NSPS) - Subpart LL - Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
      On and after the sixtieth day after achieving the maximum production rate at which **PF1.457 through PF1.463** each, will be operated, but not later than 180 days after initial startup, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.457 through PF1.463** each, will not exceed **10 percent** opacity. (40 CFR Part 60.382(b))
      (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction. (40 CFR Part 60.11(c))
      (3) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.457 through PF1.463** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput for **PF1.457 through PF1.464** will not exceed **500.0** tons of ore per any one-hour period, each, nor more than **4,380,000** tons of ore per year, each, based on a 12-month rolling period.
   b. **PF1.457 through PF1.464** may operate **8,760** hours per year, each.

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Section VI. Specific Operating Conditions (continued)

CR. Emission Units PF1.457 through PF1.464 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part *70 Program*
   a. Monitoring, Recordkeeping, Reporting and Compliance
   On and after the date of initial startup, Permittee will:
   (1) Monitor and record the throughput of **PF1.457 through PF1.464** on a daily basis.
   (2) Monitor and record the hours of operation of **PF1.457 through PF1.464** on a daily basis.
   (3) Conduct and record an assessment of the visible emissions (excluding water vapor) from **PF1.464** on a monthly basis. If the visible emission survey detects any visible emissions, the Permittee will conduct and record a Method 9 (or an alternative EPA reference method approved by the Director) visible emissions test. Conduct and record a Method 9 (or an alternative EPA reference method approved by the Director) visible emissions test of the visible emissions (excluding water vapor) from **PF1.457 through PF1.463** on a **monthly basis**. Each visible emissions assessment and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while **PF1.457 through PF1.464** are operating and have the potential to create visible emissions. It will be noted in a contemporaneous log if a visible emissions assessment or Method 9 visible emissions test could not be conducted due to **PF1.457 through PF1.464** not operating or due to poor weather conditions.
   (4) Inspect the pneumatic water sprays systems on **PF1.457.1**, **PF1.459** and **PF1.464** once during each day of operation to verify they are operating as designed. Record the inspection results and any corrective actions taken.
   (5) Inspect the enclosures on **PF1.457.2**, **PF1.458** and **PF1.460 through PF1.463** on an annual basis to verify that the enclosures are intact. Record the inspection results and any corrective actions taken.
   (6) Maintain a contemporaneous log containing at a minimum, the following recordkeeping for each day, or part of a day that **PF1.457 through PF1.464** each, are operating.
      (i) The calendar date of any required monitoring.
      (ii) The total daily throughput of ore for the corresponding date.
      (iii) The total daily hours of operation for the corresponding date.
      (iv) The corresponding average throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation recorded in (1) and (2) above.
      (v) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (ii) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.
      (vi) Records and results of the daily pneumatic water sprays inspection for **PF1.457.1**, **PF1.459** and **PF1.464**, and any corrective actions taken.
      (vii) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
   (7) Maintain records of monitoring data, compliance tests and supporting information for a minimum of 5 years following the date of such measurements, reports or records pursuant to Section V.A of this permit. The most recent 2 years will be retained on site and made available for inspection upon request.
   b. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))
   Permittee, upon the issuance date of this permit, shall:
   (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Shielded Requirements
Compliance with conditions CR.1 through CR.4 of this Section will be deemed compliance with the applicable requirements specified below, as of the issuance date of this operating permit.

Applicable SIP Requirements:
NAC 445.732 (Industrial Sources) - see streamline analysis provided in Appendix 4 of operating permit renewal application, received September 20, 2006 (Case #07AP0121).

NAC Requirements:
445B.22033 (Sources not Otherwise Limited) - see streamline analysis provided in Appendix 4 of operating permit renewal application, received September 20, 2006 (Case #07AP0121).

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Section VI. Specific Operating Conditions (continued)

DC. Emission Units PF1.483 through PF1.485 Location North 4,538.5 km, East 552.2 km, UTM (Zone 11)

DC. System 103A – Ore Fines Feed System		
PF	1.483	Hopper (Loading)
PF	1.484	Hopper (discharge)
PF	1.485	Screw Conveyor transfer to Bucket Elevator

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Equipment
   a. Emissions from **PF1.483** will be operated in a manner that minimizes emissions.
   b. Emissions from **PF1.484 and PF1.485** will be controlled by enclosures.

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **PF1.483**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.483**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.03** pound per hour, nor exceed **0.12** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.08** pound per hour, nor exceed **0.35** ton per year, based on a 12-month rolling period.
      (3) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from the exhaust vent of **PF1.483** will not equal or exceed **20%** in accordance with NAC 445B.22017.
   b. On and after the date of startup of **PF1.484 and PF1.485**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.484 and PF1.485**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.003** pound per hour, each, nor exceed **0.012** ton per year, each, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.006** pound per hour, each, nor exceed **0.025** ton per year, each, based on a 12-month rolling period.
      (3) NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from **PF1.484 and PF1.485**, each, will not equal or exceed **20%** in accordance with NAC 445B.22017.
   c. New Source Performance Standards (NSPS) - Subpart LL - Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
      On and after the sixtieth day after achieving the maximum production rate at which **PF1.483 through PF1.485** will be operated, but not later than 180 days after initial startup, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.483 through PF1.485**, each, will not exceed **10 percent** opacity. (40 CFR Part 60.382(b))
      (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction. (40 CFR Part 60.11(c))
      (3) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.483 through PF1.485** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput rate for **PF1.483 through PF1.485**, each, will not exceed **30.0** tons of ore per any one-hour period.
   b. **PF1.483 through PF1.485** may operate **8,760** hours per year, each.

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Section VI. Specific Operating Conditions (continued)

DC. Emission Units PF1.483 through PF1.485 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part *70 Program*
Monitoring, Recordkeeping, Reporting and Compliance
   a. For the purposes of demonstrating initial compliance with the emission limits established in Section VI for **PF1.483 through PF1.485**, opacity observations shall be conducted using Method 9 in Appendix A of 40 CFR Part 60 and the procedures in 40 CFR Parts 60.11 and 60.386.
   b. Opacity observations shall be conducted within 60 days after achieving the maximum production rate at which **PF1.483 through PF1.485** will be operated, but no later than 180 days after initial startup of **PF1.483 through PF1.485**. The minimum total time of observations shall be 3 hours (30 6-minute averages). The observer shall read opacity only when emissions are clearly emanating solely from the affected facility being observed (40 CFR Part 60.11(b), 60.11(e), 60.386(b)(2)).
   c. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in Section VI. The notification shall be postmarked not less than 30 days prior to such date. (40 CFR Part 60.7(a)(6))
   d. Monitoring and Recordkeeping
   On and after the date of initial startup, Permittee will:
      (1) Monitor and record the throughput of **PF1.483 through PF1.485**, each, on a daily basis. At the end of each calendar month, record the total monthly throughput and the total throughput for the previous 12 months.
      (2) Monitor and record the hours of operation of **PF1.483 through PF1.485**, each, on a daily basis. At the end of each calendar month, record the total monthly hours of operation and the total hours of operation for the previous 12 months.
      (3) Conduct and record an assessment of the visible emissions (excluding water vapor) from **PF1.483 through PF1.485**, each, on a monthly basis. If the visible emission survey detects any visible emissions, the Permittee will conduct and record a Method 9 (or an alternative EPA reference method approved by the Director) visible emissions test. Each visible emissions assessment and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while **PF1.483 through PF1.485**, each, is operating and has the potential to create visible emissions. It will be noted in a contemporaneous log if a visual emissions assessment could not be conducted due to **PF1.483 through PF1.485**, each, not operating or due to poor weather conditions.
      (4) Maintain records of monitoring data, compliance tests and supporting information for a minimum of 5 years following the date of such measurements, reports or records pursuant to Section V.A of this permit. The most recent 2 years will be retained on site and made available for inspection upon request.
      (5) The hourly throughput rate in tons per hour for **PF1.483 through PF1.485**, each, will be determined from the total daily throughput and the total daily hours of operation recorded above.
      (6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.483 through PF1.485**, each, are operating:
         (i) The calendar date of any required monitoring.
         (ii) The total daily throughput rate of ore, in tons, for the corresponding date.
         (iii) The total daily hours of operation for the corresponding date.
         (iv) The corresponding average hourly throughput rate of ore, in tons per hour. The average hourly throughput rate will be determined from the daily throughput rate and the total daily hours of operation recorded in (1) and (2) above.
         (v) Results and verification of the monthly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
   e. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))
   Permittee, upon the issuance date of this permit, shall:
      (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

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Section VI. Specific Operating Conditions (continued)

DC. Emission Units PF1.483 through PF1.485 (continued)

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Shielded Requirements
Compliance with conditions DC.1 through DC.4 of this Section will be deemed compliance with the applicable requirements specified below, as of the issuance date of this operating permit.

Applicable SIP Requirements:
NAC 445.732 (Industrial Sources) - see streamline analysis provided in Appendix 4 of operating permit renewal application, received September 20, 2006 (Case #07AP0121).

NAC Requirements:
445B.22033 (Sources not Otherwise Limited) - see streamline analysis provided in Appendix 4 of operating permit renewal application, received September 20, 2006 (Case #07AP0121).

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Section VI. Specific Operating Conditions (continued)

DH. Emission Units PF1.486 through PF1.490 Location North 4,536.2 km, East 554.7 km, UTM (Zone 11)

DH. System 107 – Additional Equipment for Intermediate Crushing System (Mill #1 & #2)		
PF	1.486	Conveyor transfer
PF	1.487	Conveyor transfer
PF	1.488	Cone Crusher
PF	1.489	Conveyor transfer
PF	1.490	Multi-deck Screen

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Air Pollution Equipment
   a. Emissions from **PF1.486, PF1.487, PF1.489, and PF1.490** each will be controlled by pneumatic water sprays.
   b. Emissions from **PF1.488** will be controlled by an enclosure.

2. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Emission Limits
   a. On and after the date of startup of **PF1.486, PF1.487, and PF1.489**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.486, PF1.487, and PF1.489**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.024** pound per hour, each, nor exceed **0.103** ton per year, each, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.050** pound per hour, each, nor exceed **0.219** ton per year, each, based on a 12-month rolling period.
   b. On and after the date of startup of **PF1.488**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.488**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.270** pound per hour, nor exceed **1.183** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **0.600** pound per hour, nor exceed **2.628** ton per year, based on a 12-month rolling period.
   c. On and after the date of startup of **PF1.490**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.490**, the following pollutants in excess of the following specified limits:
      (1) NAC 445B.305 *(Part 70 Program)* - The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.370** pound per hour, nor exceed **1.621** ton per year, based on a 12-month rolling period.
      (2) NAC 445B.305 *(Part 70 Program)* - The discharge of PM (particulate matter) to the atmosphere will not exceed **1.100** pound per hour, nor exceed **4.818** ton per year, based on a 12-month rolling period.
   d. NAC 445B.22017 *(Federally Enforceable SIP Requirement)* - The opacity from **PF1.486 through PF1.490** each will not equal or exceed **20%** in accordance with NAC 445B.22017.
   e. New Source Performance Standards (NSPS) - Subpart LL - Standards of Performance for Metallic Mineral Processing Plants (40 CFR Part 60.380)
      On and after the sixtieth day after achieving the maximum production rate at which **PF1.486 through PF1.490** each, will be operated, but not later than 180 days after initial startup, Permittee will not discharge or cause the discharge into the atmosphere, the following pollutants in excess of the following specified limits:
      (1) Process fugitive emissions from **PF1.486 through PF1.490** each, will not exceed **10 percent** opacity. (40 CFR Part 60.382(b))
      (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction. (40 CFR Part 60.11(c))
      (3) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.486 through PF1.490** each, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. (40 CFR Part 60.11(d))

3. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
   Operating Parameters
   a. The maximum allowable throughput for **PF1.486 through PF1.490** will not exceed **500.0** tons of ore per any one-hour period, each, nor more than **4,380,000** tons of ore per year, each, based on a 12-month rolling period.
   b. **PF1.486 through PF1.490** may operate **8,760** hours per year, each.

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Section VI. Specific Operating Conditions (continued)

DH. Emission Units PF1.486 through PF1.490 (continued)

4. NAC 445B.3405 (NAC 445B.316) Part *70 Program*
Monitoring, Recordkeeping, Reporting and Compliance

a. For the purposes of demonstrating initial compliance with the emission limits established in Section VI for **PF1.486 through PF1.490**, opacity observations shall be conducted using Method 9 in Appendix A of 40 CFR Part 60 and the procedures in 40 CFR Parts 60.11 and 60.386.

b. Opacity observations shall be conducted within 60 days after achieving the maximum production rate at which **PF1.486 through PF1.490** will be operated, but no later than 180 days after initial startup of **PF1.486 through PF1.490**. The minimum total time of observations shall be 3 hours (30 6-minute averages). The observer shall read opacity only when emissions are clearly emanating solely from the affected facility being observed (40 CFR Part 60.11(b), 60.11(e), 60.386(b)(2)).

c. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in Section VI. The notification shall be postmarked not less than 30 days prior to such date. (40 CFR Part 60.7(a)(6))

d. Monitoring and Recordkeeping
On and after the date of initial startup, Permittee will:

(1) Monitor and record the throughput of **PF1.486 through PF1.490** on a daily basis.

(2) Monitor and record the hours of operation of **PF1.486 through PF1.490** on a daily basis.

(3) Conduct and record a Method 9 (or an alternative EPA reference method approved by the Director) visible emissions test of the visible emissions (excluding water vapor) from **PF1.486 through PF1.490** on a **monthly basis**. Each visible emissions assessment and Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, and while **PF1.486 through PF1.490** are operating and have the potential to create visible emissions. It will be noted in a contemporaneous log if a visible emissions assessment or Method 9 visible emissions test could not be conducted due to **PF1.486 through PF1.490** not operating or due to poor weather conditions.

(4) Inspect the pneumatic water sprays systems on **PF1.486, PF1.487, PF1.489, and PF1.490** once during each day of operation to verify they are operating as designed. Record the inspection results and any corrective actions taken.

(5) Inspect the enclosures on **PF1.488** on an annual basis to verify that the enclosures are intact. Record the inspection results and any corrective actions taken.

(6) The required monitoring established in (1) through (5) above, will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **PF1.486 through PF1.490**, each, are operating:

(i) The calendar date of any required monitoring.

(ii) The total daily throughput of ore for the corresponding date.

(iii) The total daily hours of operation for the corresponding date.

(iv) The corresponding average throughput rate in tons per hour. The average hourly throughput rate shall be determined from the total daily throughput and the total daily hours of operation recorded in (1) and (2) above.

(v) The monthly throughput rate in tons per calendar month, and the corresponding annual throughput rate in tons per 12-month rolling period. The monthly throughput rate will be determined at the end of each calendar month as the sum of each total daily throughput rate as determined in (ii) above for each day of the calendar month. The annual throughput rate will be determined at the end of each calendar month as the sum of the monthly throughput rates for the 12 immediately preceding calendar months.

(vi) Results of the daily pneumatic water sprays inspection for **PF1.486, PF1.487, PF1.489, and F1.490**, and any corrective actions taken.

(vii) Results and verification of the monthly Method 9 visible emission tests, including all documents required under 40 CFR Part 60, Appendix A.

(viii) Results of the annual enclosure inspections for **PF1.488** and any corrective actions taken.

(7) Maintain records of monitoring data, compliance tests and supporting information for a minimum of 5 years following the date of such measurements, reports or records pursuant to Section V.A of this permit. The most recent 2 years will be retained on site and made available for inspection upon request.

e. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))
Permittee, upon the issuance date of this permit, shall:

(1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Issued to: BARRICK GOLDSTRIKE MINES, INC., as Permittee

Section VI. Specific Operating Conditions (continued)

DH. Emission Units PF1.486 through PF1.490 (continued)

5. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Shielded Requirements
Compliance with conditions DH.1 through DH.4 of this Section will be deemed compliance with the applicable requirements specified below, as of the issuance date of this operating permit.

Applicable SIP Requirements:
NAC 445.732 (Industrial Sources) - see streamline analysis provided in Appendix 4 of operating permit renewal application, received September 8, 2008 (Case #09AP0082).

NAC Requirements:
445B.22033 (Sources not Otherwise Limited) - see streamline analysis provided in Appendix 4 of operating permit renewal application, received September 8, 2008 (Case #09AP0082).

**************End of Specific Operating Conditions****************

Issued to: BARRICK GOLDSTRIKE MINES, INC., as Permittee

Section X. Amendments

June 30, 2008 - Minor Revision. Add specific operating conditions for pressure relief vents in System 19, Section VI.S. Remove "lime" from System 63 description. Add soda ash as a material that can be used in System 63, Section VIIA. Add new autoclave mixing tank, System 106, emission unit S2.319. PM and PM_{10} emission limits will increase by 1.88 tons per year as a result of the addition of System 106. (Air Case #08AP0248).

XXXX, 2008 - Minor Revision. Change description for System 97 from "Intermediate Crushing System (Mill #1)" to "Intermediate Crushing System (Mill #1 & #2)". Change screen description for PF1.459 and PF1.460 (System 97) from double-deck screen to multi-deck screen. Remove 3 minute opacity requirement for System 97. Replace initial compliance demonstration in Section VI.DC.4 for PF1.483 through PF1.485 (System 103A) from 40 CFR Part 60 Subpart OOO requirements to 40 CFR Part 60 Subpart LL requirements (System 103A is subject to Subpart LL and not Subpart OOO). Add new crushing plant to permit, System 107, emission units PF1.486 through PF1.490. PM emission limits will increase by 8.10 tons per year and PM_{10} emission limits will increase by 3.11 tons per year as a result of the addition of System 107. (Air Case #09AP0082).

This permit:

1. **Is non-transferable. (NAC 445B.287)** ***Part 70 Program***
2. **Will be posted conspicuously at or near the stationary source. (NAC 445B.318)(State Only Requirement)**
3. **Will expire and be subject to renewal five (5) years from July 17, 2007. (NAC 445B.315)** ***Part 70 Program***
4. **A complete application for renewal of an operating permit must be submitted to the director on the form provided by him with the appropriate fee at least 240 calendar days before the expiration date of this operating permit. (NAC 445B.323.2)** ***Part 70 Program***
5. **Any party aggrieved by the Department's decision to issue this permit may appeal to the State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340)(State Only Requirement)**

THIS PERMIT EXPIRES ON: **July 17, 2012**

Signature Draft Copy

Issued by: Matthew A. DeBurle, P.E.
Supervisor, Class I Permitting Branch
Bureau of Air Pollution Control

Phone: (775) 687-9391 Date: _____

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