MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

B015543

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: FEBRUARY 2027

OWNER OF OPERATOR (Co.#2349)

MP Mine Operations LLC
67750 Bailey Road
Mountain Pass, CA 92366

EQUIPMENT LOCATION (Fac.#364)

Mountain Pass Mine
67750 Bailey Road
Mountain Pass, CA 92366

Description:
SXT CIRCUIT (HEAVIES SEPARATION) consisting of: Permit fees are assessed pursuant to Rule 301(E)(5)(b) based on a capacity of 46,401 gallons/1000 gallons = 46.40 mgal.

EQUIPMENT

Capacity	Equipment Description
0	D62-AG101 SXT Extraction Cell 101 Agitator
0	D62-AG102 SXT Extraction Cell 102 Agitator
0	D62-AG103 SXT Extraction Cell 103 Agitator
0	D62-AG104 SXT Extraction Cell 104 Agitator
0	D62-AG105 SXT Extraction Cell 105 Agitator
0	D62-AG106 SXT Extraction Cell 106 Agitator
0	D62-AG107 SXT Extraction Cell 107 Agitator
0	D62-AG108 SXT Extraction Cell 108 Agitator
0	D62-AG109 SXT Extraction Cell 109 Agitator
0	D62-AG110 SXT Extraction Cell 110 Agitator
0	D62-AG111 SXT Extraction Cell 111 Agitator
0	D62-MV101 SXT Extraction Cell 101 Mixing Vessel 189 gallon

Fee Schedule: 5 (b) Rating: 46401 gallons SIC: 1099 SCC: 30504099 Location/UTM(Km): 634E/3926N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

MP Mine Operations LLC
1700 S. Pavilion Center Drive, 8th Floor
Las Vegas, NV 89135

By: **COPY**
Brad Poiriez
Executive Director

UNOFFICIAL

Capacity	Equipment Description
0	D62-MV102 SXT Extraction Cell 102 Mixing Vessel 189 gallon
0	D62-MV103 SXT Extraction Cell 103 Mixing Vessel 189 gallon
0	D62-MV104 SXT Extraction Cell 104 Mixing Vessel 189 gallon
0	D62-MV105 SXT Extraction Cell 105 Mixing Vessel 189 gallon
0	D62-MV106 SXT Extraction Cell 106 Mixing Vessel 189 gallon
0	D62-MV107 SXT Extraction Cell 107 Mixing Vessel 189 gallon
0	D62-MV108 SXT Extraction Cell 108 Mixing Vessel 189 gallon
0	D62-MV109 SXT Extraction Cell 109 Mixing Vessel 189 gallon
0	D62-MV110 SXT Extraction Cell 110 Mixing Vessel 189 gallon
0	D62-MV111 SXT Extraction Cell 111 Mixing Vessel 189 gallon
0	D62-STLR101 SXT Extraction Cell 101 Settler Tank 498 gallon
0	D62-STLR102 SXT Extraction Cell 102 Settler Tank 498 gallon
0	D62-STLR103 SXT Extraction Cell 103 Settler Tank 498 gallon
0	D62-STLR104 SXT Extraction Cell 104 Settler Tank 498 gallon
0	D62-STLR105 SXT Extraction Cell 105 Settler Tank 498 gallon
0	D62-STLR106 SXT Extraction Cell 106 Settler Tank 498 gallon
0	D62-STLR107 SXT Extraction Cell 107 Settler Tank 498 gallon
0	D62-STLR108 SXT Extraction Cell 108 Settler Tank 498 gallon
0	D62-STLR109 SXT Extraction Cell 109 Settler Tank 498 gallon
0	D62-STLR110 SXT Extraction Cell 110 Settler Tank 498 gallon
0	D62-STLR111 SXT Extraction Cell 111 Settler Tank 498 gallon
0	D62-AG201 SXT Scrub Cell 201 Agitator
0	D62-AG202 SXT Scrub Cell 202 Agitator
0	D62-AG203 SXT Scrub Cell 203 Agitator
0	D62-AG204 SXT Scrub Cell 204 Agitator
0	D62-AG205 SXT Scrub Cell 205 Agitator
0	D62-AG206 SXT Scrub Cell 206 Agitator
0	D62-AG207 SXT Scrub Cell 207 Agitator
0	D62-AG208 SXT Scrub Cell 208 Agitator
0	D62-AG209 SXT Scrub Cell 209 Agitator
0	D62-AG210 SXT Scrub Cell 210 Agitator
0	D62-AG211 SXT Scrub Cell 211 Agitator
0	D62-MV201 SXT Scrub Cell 201 Mixing Vessel 189 gallon
0	D62-MV202 SXT Scrub Cell 202 Mixing Vessel 189 gallon
0	D62-MV203 SXT Scrub Cell 203 Mixing Vessel 189 gallon
0	D62-MV204 SXT Scrub Cell 204 Mixing Vessel 189 gallon
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0	D62-MV206 SXT Scrub Cell 206 Mixing Vessel 189 gallon
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0	D62-MV208 SXT Scrub Cell 208 Mixing Vessel 189 gallon
0	D62-MV209 SXT Scrub Cell 209 Mixing Vessel 189 gallon
0	D62-MV210 SXT Scrub Cell 210 Mixing Vessel 189 gallon
0	D62-MV211 SXT Scrub Cell 211 Mixing Vessel 189 gallon
0	D62-STLR201 SXT Scrub Cell 201 Settler Tank 498 gallon
0	D62-STLR202 SXT Scrub Cell 202 Settler Tank 498 gallon
0	D62-STLR203 SXT Scrub Cell 203 Settler Tank 498 gallon
0	D62-STLR204 SXT Scrub Cell 204 Settler Tank 498 gallon
0	D62-STLR205 SXT Scrub Cell 205 Settler Tank 498 gallon
0	D62-STLR206 SXT Scrub Cell 206 Settler Tank 498 gallon
0	D62-STLR207 SXT Scrub Cell 207 Settler Tank 498 gallon

Capacity	Equipment Description
0	D62-STLR208 SXT Scrub Cell 208 Settler Tank 498 gallon
0	D62-STLR209 SXT Scrub Cell 209 Settler Tank 498 gallon
0	D62-STLR210 SXT Scrub Cell 210 Settler Tank 498 gallon
0	D62-STLR211 SXT Scrub Cell 211 Settler Tank 498 gallon
0	D62-AG301 SXT Strip Cell 301 Agitator
0	D62-AG302 SXT Strip Cell 302 Agitator
0	D62-AG303 SXT Strip Cell 303 Agitator
0	D62-AG304 SXT Strip Cell 304 Agitator
0	D62-AG305 SXT Post-Strip Cell 305 Agitator
0	D62-MV301 SXT Strip Cell 301 Mixing Vessel 189 gallon
0	D62-MV302 SXT Strip Cell 302 Mixing Vessel 189 gallon
0	D62-MV303 SXT Strip Cell 303 Mixing Vessel 189 gallon
0	D62-MV304 SXT Strip Cell 304 Mixing Vessel 189 gallon
0	D62-MV305 SXT Post-Strip Cell 305 Mixing Vessel 189 gallon
0	D62-STLR301 SXT Strip Cell 301 Settler Tank 498 gallon
0	D62-STLR302 SXT Strip Cell 302 Settler Tank 498 gallon
0	D62-STLR303 SXT Strip Cell 303 Settler Tank 498 gallon
0	D62-STLR304 SXT Strip Cell 304 Settler Tank 498 gallon
0	D62-STLR305 SXT Post-Strip Cell 305 Settler Tank 498 gallon
0	D62-TK103 SXT Feed Storage Tank 12500 gallon
0	D62-TK107 SXT Barren Organic Transfer Tank 595 gallon
0	D62-TK108 SXT Barren Organic Tank 4957 gallon
0	D62-TK111A SXT Saponification Tank #1 595 gallon
0	D62-TK111B SXT Saponification Tank #2 595 gallon
0	D62-TK114 SXT Raffinate Transfer Tank 595 gallon
0	D62-TK115 SXT Raffinate Disengagement Tank 3850 gallon
0	D62-TK121 SXT Pregnant Liquor Tank 3570 gallon
0	D62-TK134 SXT Pregnant Transfer Tank 595 gallon
0	D62-P103 SXT Feed Pump
0	D62-P104 SXT Feed Pump
0	D62-P107 SXT Barren Organic Transfer Pump
0	D62-P108 SXT Disengaged Aqueous Pump
0	D62-P109 SXT Barren Organic Pump
0	D62-P110 SXT Barren Organic Pump
0	D62-P111 SXT Saponified Organic Pump
0	D62-P113 SXT Raffinate Transfer Pump
0	D62-P114 SXT Raffinate Transfer Pump
0	D62-P115 SXT Raffinate Pump
0	D62-P116 SXT Raffinate Pump
0	D62-P121 SXT Pregnant Liquor Pump
0	D62-P122 SXT Pregnant Liquor Pump
0	D62-P123 SXT Disengaged Aqueous Pump
0	D62-P125 SXT Barren Organic Transfer Pump
0	D62-P134 SXT Pregnant Transfer Pump
0	D62-P135 SXT Pregnant Transfer Pump
0	D62-P138 SXT Scrub Feed Pump
0	D62-P139 SXT Scrub Feed Pump
0	D62-AG111A SXT Saponification Tank Agitator
0	D62-AG111B SXT Saponification Tank Agitator
0	D62-EDU1 SXT NaOH Eductor

Capacity	Equipment Description
0	D62-HX111 SXT Saponified Organic Cooler
0	D62-MX108 SXT HCl Mixer

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 204]

2. This equipment shall not be operated unless vented to the properly operating SXS Circuit VOC Adsorbers under valid District permits C015544 and C015545 and HCl adsorbers under C015546 and C015547.
[District Rules 204 and 1320]

3. This facility shall not discharge VOC into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to Rule 442, in excess of 540 kilograms (1,190 pounds) per month. Compliance with these emission limits shall be satisfied via annual emission inventory submittals.
[District Rule 442]

4. A log of all maintenance and repairs/replacements shall be kept for this equipment. Logs shall be kept current, on-site for a minimum of 5 years and provided to District personnel on request.
[District Rules 204 and 1320]

5. Actual emissions from this facility shall be less than the following:
a. 42 tons per year of NOx [Rule 1303(B)]
b. 46 tons per year of PM10 [Rule 1303(B)]
c. 25 tons per year of VOC
d. 25 tons per year of SOx
e. 100 tons per year of CO, calculated on a rolling twelve-month basis
f. 10 tons per year for any single HAP and 25 tons per year for any combination of HAPs calculated on a rolling twelve-month basis. HAPs are defined in 40 CFR 61.01 and are the chemical compounds listed in section 112(b) of the Clean Air Act (Act). Compliance with the annual emission limits shall be demonstrated via 12 month rolling sum for CO and HAP via annual emission inventory reports for all criteria pollutants and HAP.
[District Rule 1303]

6. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), Health & Safety Code 39607 & 44341-44342, 17 CCR 93400 et seq., and 40 CFR 51, Subpart A]