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

B015542

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:
SXS CIRCUIT (HEAVIES SEPARATION) consisting of: Permit fees are assessed pursuant to Rule 301(E)(5)(b) based on a capacity of 87,772 gallons/1000 gallons = 87.77 mgal.

EQUIPMENT

Capacity	Equipment Description
0	D61-AG101 SXS Extraction Cell 101 Agitator
0	D61-AG102 SXS Extraction Cell 102 Agitator
0	D61-AG103 SXS Extraction Cell 103 Agitator
0	D61-AG104 SXS Extraction Cell 104 Agitator
0	D61-AG105 SXS Extraction Cell 105 Agitator
0	D61-AG106 SXS Extraction Cell 106 Agitator
0	D61-AG107 SXS Extraction Cell 107 Agitator
0	D61-AG108 SXS Extraction Cell 108 Agitator
0	D61-AG109 SXS Extraction Cell 109 Agitator
0	D61-AG110 SXS Extraction Cell 110 Agitator
0	D61-AG111 SXS Extraction Cell 111 Agitator
0	D61-AG112 SXS Extraction Cell 112 Agitator

Fee Schedule: 5 (b) Rating: 87772 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	D61-AG113 SXS Extraction Cell 113 Agitator
0	D61-AG114 SXS Extraction Cell 114 Agitator
0	D61-AG115 SXS Extraction Cell 115 Agitator
0	D61-AG116 SXS Extraction Cell 116 Agitator
0	D61-AG117 SXS Extraction Cell 117 Agitator
0	D61-AG118 SXS Extraction Cell 118 Agitator
0	D61-AG119 SXS Extraction Cell 119 Agitator
0	D61-AG120 SXS Extraction Cell 120 Agitator
0	D61-AG121 SXS Extraction Cell 121 Agitator
0	D61-AG122 SXS Extraction Cell 122 Agitator
0	D61-AG123 SXS Extraction Cell 123 Agitator
0	D61-AG124 SXS Extraction Cell 124 Agitator
0	D61-AG125 SXS Extraction Cell 125 Agitator
0	D61-AG126 SXS Extraction Cell 126 Agitator
0	D61-AG127 SXS Extraction Cell 127 Agitator
0	D61-AG128 SXS Extraction Cell 128 Agitator
0	D61-AG129 SXS Extraction Cell 129 Agitator
0	D61-AG130 SXS Extraction Cell 130 Agitator
0	D61-AG131 SXS Extraction Cell 131 Agitator
0	D61-AG132 SXS Extraction Cell 132 Agitator
0	D61-AG133 SXS Extraction Cell 133 Agitator
0	D61-AG134 SXS Extraction Cell 134 Agitator
0	D61-AG135 SXS Extraction Cell 135 Agitator
0	D61-MV101 SXS Extraction Cell 101 Mixing Vessel 272 gallon
0	D61-MV102 SXS Extraction Cell 102 Mixing Vessel 272 gallon
0	D61-MV103 SXS Extraction Cell 103 Mixing Vessel 272 gallon
0	D61-MV104 SXS Extraction Cell 104 Mixing Vessel 272 gallon
0	D61-MV105 SXS Extraction Cell 105 Mixing Vessel 272 gallon
0	D61-MV106 SXS Extraction Cell 106 Mixing Vessel 272 gallon
0	D61-MV107 SXS Extraction Cell 107 Mixing Vessel 272 gallon
0	D61-MV108 SXS Extraction Cell 108 Mixing Vessel 272 gallon
0	D61-MV109 SXS Extraction Cell 109 Mixing Vessel 272 gallon
0	D61-MV110 SXS Extraction Cell 110 Mixing Vessel 272 gallon
0	D61-MV111 SXS Extraction Cell 111 Mixing Vessel 272 gallon
0	D61-MV112 SXS Extraction Cell 112 Mixing Vessel 272 gallon
0	D61-MV113 SXS Extraction Cell 113 Mixing Vessel 272 gallon
0	D61-MV114 SXS Extraction Cell 114 Mixing Vessel 272 gallon
0	D61-MV115 SXS Extraction Cell 115 Mixing Vessel 272 gallon
0	D61-MV116 SXS Extraction Cell 116 Mixing Vessel 272 gallon
0	D61-MV117 SXS Extraction Cell 117 Mixing Vessel 272 gallon
0	D61-MV118 SXS Extraction Cell 118 Mixing Vessel 272 gallon
0	D61-MV119 SXS Extraction Cell 119 Mixing Vessel 272 gallon
0	D61-MV120 SXS Extraction Cell 120 Mixing Vessel 272 gallon
0	D61-MV121 SXS Extraction Cell 121 Mixing Vessel 272 gallon
0	D61-MV122 SXS Extraction Cell 122 Mixing Vessel 272 gallon
0	D61-MV123 SXS Extraction Cell 123 Mixing Vessel 272 gallon
0	D61-MV124 SXS Extraction Cell 124 Mixing Vessel 272 gallon
0	D61-MV125 SXS Extraction Cell 125 Mixing Vessel 272 gallon
0	D61-MV126 SXS Extraction Cell 126 Mixing Vessel 272 gallon
0	D61-MV127 SXS Extraction Cell 127 Mixing Vessel 272 gallon

Capacity	Equipment Description
0	D61-MV128 SXS Extraction Cell 128 Mixing Vessel 272 gallon
0	D61-MV129 SXS Extraction Cell 129 Mixing Vessel 272 gallon
0	D61-MV130 SXS Extraction Cell 130 Mixing Vessel 272 gallon
0	D61-MV131 SXS Extraction Cell 131 Mixing Vessel 189 gallon
0	D61-MV132 SXS Extraction Cell 132 Mixing Vessel 189 gallon
0	D61-MV133 SXS Extraction Cell 133 Mixing Vessel 189 gallon
0	D61-MV134 SXS Extraction Cell 134 Mixing Vessel 189 gallon
0	D61-MV135 SXS Extraction Cell 135 Mixing Vessel 189 gallon
0	D61-STLR101 SXS Extraction Cell 101 Settler Tank 776 gallon
0	D61-STLR102 SXS Extraction Cell 102 Settler Tank 776 gallon
0	D61-STLR103 SXS Extraction Cell 103 Settler Tank 776 gallon
0	D61-STLR104 SXS Extraction Cell 104 Settler Tank 776 gallon
0	D61-STLR105 SXS Extraction Cell 105 Settler Tank 776 gallon
0	D61-STLR106 SXS Extraction Cell 106 Settler Tank 776 gallon
0	D61-STLR107 SXS Extraction Cell 107 Settler Tank 776 gallon
0	D61-STLR108 SXS Extraction Cell 108 Settler Tank 776 gallon
0	D61-STLR109 SXS Extraction Cell 109 Settler Tank 776 gallon
0	D61-STLR110 SXS Extraction Cell 110 Settler Tank 776 gallon
0	D61-STLR111 SXS Extraction Cell 111 Settler Tank 776 gallon
0	D61-STLR112 SXS Extraction Cell 112 Settler Tank 776 gallon
0	D61-STLR113 SXS Extraction Cell 113 Settler Tank 776 gallon
0	D61-STLR114 SXS Extraction Cell 114 Settler Tank 776 gallon
0	D61-STLR115 SXS Extraction Cell 115 Settler Tank 776 gallon
0	D61-STLR116 SXS Extraction Cell 116 Settler Tank 776 gallon
0	D61-STLR117 SXS Extraction Cell 117 Settler Tank 776 gallon
0	D61-STLR118 SXS Extraction Cell 118 Settler Tank 776 gallon
0	D61-STLR119 SXS Extraction Cell 119 Settler Tank 776 gallon
0	D61-STLR120 SXS Extraction Cell 120 Settler Tank 776 gallon
0	D61-STLR121 SXS Extraction Cell 121 Settler Tank 776 gallon
0	D61-STLR122 SXS Extraction Cell 122 Settler Tank 776 gallon
0	D61-STLR123 SXS Extraction Cell 123 Settler Tank 776 gallon
0	D61-STLR124 SXS Extraction Cell 124 Settler Tank 776 gallon
0	D61-STLR125 SXS Extraction Cell 125 Settler Tank 776 gallon
0	D61-STLR126 SXS Extraction Cell 126 Settler Tank 776 gallon
0	D61-STLR127 SXS Extraction Cell 127 Settler Tank 776 gallon
0	D61-STLR128 SXS Extraction Cell 128 Settler Tank 776 gallon
0	D61-STLR129 SXS Extraction Cell 129 Settler Tank 776 gallon
0	D61-STLR130 SXS Extraction Cell 130 Settler Tank 776 gallon
0	D61-STLR131 SXS Extraction Cell 131 Settler Tank 498 gallon
0	D61-STLR132 SXS Extraction Cell 132 Settler Tank 498 gallon
0	D61-STLR133 SXS Extraction Cell 133 Settler Tank 498 gallon
0	D61-STLR134 SXS Extraction Cell 134 Settler Tank 498 gallon
0	D61-STLR135 SXS Extraction Cell 135 Settler Tank 498 gallon
0	D61-AG201 SXS Scrub Cell 201 Agitator
0	D61-AG202 SXS Scrub Cell 202 Agitator
0	D61-AG203 SXS Scrub Cell 203 Agitator
0	D61-AG204 SXS Scrub Cell 204 Agitator
0	D61-AG205 SXS Scrub Cell 205 Agitator
0	D61-AG206 SXS Scrub Cell 206 Agitator
0	D61-AG207 SXS Scrub Cell 207 Agitator

Capacity	Equipment Description
0	D61-AG208 SXS Scrub Cell 208 Agitator
0	D61-AG209 SXS Scrub Cell 209 Agitator
0	D61-AG210 SXS Scrub Cell 210 Agitator
0	D61-AG211 SXS Scrub Cell 211 Agitator
0	D61-AG212 SXS Scrub Cell 212 Agitator
0	D61-AG213 SXS Scrub Cell 213 Agitator
0	D61-AG214 SXS Scrub Cell 214 Agitator
0	D61-AG215 SXS Scrub Cell 215 Agitator
0	D61-AG216 SXS Scrub Cell 216 Agitator
0	D61-AG217 SXS Scrub Cell 217 Agitator
0	D61-AG218 SXS Scrub Cell 218 Agitator
0	D61-AG219 SXS Scrub Cell 219 Agitator
0	D61-AG220 SXS Scrub Cell 220 Agitator
0	D61-AG221 SXS Scrub Cell 221 Agitator
0	D61-AG222 SXS Scrub Cell 222 Agitator
0	D61-AG223 SXS Scrub Cell 223 Agitator
0	D61-AG224 SXS Scrub Cell 224 Agitator
0	D61-AG225 SXS Scrub Cell 225 Agitator
0	D61-AG226 SXS Scrub Cell 226 Agitator
0	D61-AG227 SXS Scrub Cell 227 Agitator
0	D61-AG228 SXS Scrub Cell 228 Agitator
0	D61-AG229 SXS Scrub Cell 229 Agitator
0	D61-AG230 SXS Scrub Cell 230 Agitator
0	D61-AG231 SXS Scrub Cell 231 Agitator
0	D61-AG232 SXS Scrub Cell 232 Agitator
0	D61-AG233 SXS Scrub Cell 233 Agitator
0	D61-AG234 SXS Scrub Cell 234 Agitator
0	D61-AG235 SXS Scrub Cell 235 Agitator
0	D61-MV201 SXS Scrub Cell 201 Mixing Vessel 189 gallon
0	D61-MV202 SXS Scrub Cell 202 Mixing Vessel 189 gallon
0	D61-MV203 SXS Scrub Cell 203 Mixing Vessel 189 gallon
0	D61-MV204 SXS Scrub Cell 204 Mixing Vessel 189 gallon
0	D61-MV205 SXS Scrub Cell 205 Mixing Vessel 189 gallon
0	D61-MV206 SXS Scrub Cell 206 Mixing Vessel 189 gallon
0	D61-MV207 SXS Scrub Cell 207 Mixing Vessel 189 gallon
0	D61-MV208 SXS Scrub Cell 208 Mixing Vessel 189 gallon
0	D61-MV209 SXS Scrub Cell 209 Mixing Vessel 189 gallon
0	D61-MV210 SXS Scrub Cell 210 Mixing Vessel 189 gallon
0	D61-MV211 SXS Scrub Cell 211 Mixing Vessel 189 gallon
0	D61-MV212 SXS Scrub Cell 212 Mixing Vessel 189 gallon
0	D61-MV213 SXS Scrub Cell 213 Mixing Vessel 189 gallon
0	D61-MV214 SXS Scrub Cell 214 Mixing Vessel 189 gallon
0	D61-MV215 SXS Scrub Cell 215 Mixing Vessel 189 gallon
0	D61-MV216 SXS Scrub Cell 216 Mixing Vessel 189 gallon
0	D61-MV217 SXS Scrub Cell 217 Mixing Vessel 189 gallon
0	D61-MV218 SXS Scrub Cell 218 Mixing Vessel 189 gallon
0	D61-MV219 SXS Scrub Cell 219 Mixing Vessel 189 gallon
0	D61-MV220 SXS Scrub Cell 220 Mixing Vessel 189 gallon
0	D61-MV221 SXS Scrub Cell 221 Mixing Vessel 189 gallon
0	D61-MV222 SXS Scrub Cell 222 Mixing Vessel 189 gallon

Capacity	Equipment Description
0	D61-MV223 SXS Scrub Cell 223 Mixing Vessel 189 gallon
0	D61-MV224 SXS Scrub Cell 224 Mixing Vessel 189 gallon
0	D61-MV225 SXS Scrub Cell 225 Mixing Vessel 189 gallon
0	D61-MV226 SXS Scrub Cell 226 Mixing Vessel 189 gallon
0	D61-MV227 SXS Scrub Cell 227 Mixing Vessel 189 gallon
0	D61-MV228 SXS Scrub Cell 228 Mixing Vessel 189 gallon
0	D61-MV229 SXS Scrub Cell 229 Mixing Vessel 189 gallon
0	D61-MV230 SXS Scrub Cell 230 Mixing Vessel 189 gallon
0	D61-MV231 SXS Scrub Cell 231 Mixing Vessel 189 gallon
0	D61-MV232 SXS Scrub Cell 232 Mixing Vessel 189 gallon
0	D61-MV233 SXS Scrub Cell 233 Mixing Vessel 189 gallon
0	D61-MV234 SXS Scrub Cell 234 Mixing Vessel 189 gallon
0	D61-MV235 SXS Scrub Cell 235 Mixing Vessel 189 gallon
0	D61-STLR201 SXS Scrub Cell 201 Settler Tank 498 gallon
0	D61-STLR202 SXS Scrub Cell 202 Settler Tank 498 gallon
0	D61-STLR203 SXS Scrub Cell 203 Settler Tank 498 gallon
0	D61-STLR204 SXS Scrub Cell 204 Settler Tank 498 gallon
0	D61-STLR205 SXS Scrub Cell 205 Settler Tank 498 gallon
0	D61-STLR206 SXS Scrub Cell 206 Settler Tank 498 gallon
0	D61-STLR207 SXS Scrub Cell 207 Settler Tank 498 gallon
0	D61-STLR208 SXS Scrub Cell 208 Settler Tank 498 gallon
0	D61-STLR209 SXS Scrub Cell 209 Settler Tank 498 gallon
0	D61-STLR210 SXS Scrub Cell 210 Settler Tank 498 gallon
0	D61-STLR211 SXS Scrub Cell 211 Settler Tank 498 gallon
0	D61-STLR212 SXS Scrub Cell 212 Settler Tank 498 gallon
0	D61-STLR213 SXS Scrub Cell 213 Settler Tank 498 gallon
0	D61-STLR214 SXS Scrub Cell 214 Settler Tank 498 gallon
0	D61-STLR215 SXS Scrub Cell 215 Settler Tank 498 gallon
0	D61-STLR216 SXS Scrub Cell 216 Settler Tank 498 gallon
0	D61-STLR217 SXS Scrub Cell 217 Settler Tank 498 gallon
0	D61-STLR218 SXS Scrub Cell 218 Settler Tank 498 gallon
0	D61-STLR219 SXS Scrub Cell 219 Settler Tank 498 gallon
0	D61-STLR220 SXS Scrub Cell 220 Settler Tank 498 gallon
0	D61-STLR221 SXS Scrub Cell 221 Settler Tank 498 gallon
0	D61-STLR222 SXS Scrub Cell 222 Settler Tank 498 gallon
0	D61-STLR223 SXS Scrub Cell 223 Settler Tank 498 gallon
0	D61-STLR224 SXS Scrub Cell 224 Settler Tank 498 gallon
0	D61-STLR225 SXS Scrub Cell 225 Settler Tank 498 gallon
0	D61-STLR226 SXS Scrub Cell 226 Settler Tank 498 gallon
0	D61-STLR227 SXS Scrub Cell 227 Settler Tank 498 gallon
0	D61-STLR228 SXS Scrub Cell 228 Settler Tank 498 gallon
0	D61-STLR229 SXS Scrub Cell 229 Settler Tank 498 gallon
0	D61-STLR230 SXS Scrub Cell 230 Settler Tank 498 gallon
0	D61-STLR231 SXS Scrub Cell 231 Settler Tank 498 gallon
0	D61-STLR232 SXS Scrub Cell 232 Settler Tank 498 gallon
0	D61-STLR233 SXS Scrub Cell 233 Settler Tank 498 gallon
0	D61-STLR234 SXS Scrub Cell 234 Settler Tank 498 gallon
0	D61-STLR235 SXS Scrub Cell 235 Settler Tank 498 gallon
0	D61-AG301 SXS Strip Cell 301 Agitator
0	D61-AG302 SXS Strip Cell 302 Agitator

Capacity	Equipment Description
0	D61-AG303 SXS Strip Cell 303 Agitator
0	D61-AG304 SXS Strip Cell 304 Agitator
0	D61-AG305 SXS Post-Strip Cell 305 Agitator
0	D61-MV301 SXS Strip Cell 301 Mixing Vessel 189 gallon
0	D61-MV302 SXS Strip Cell 301 Mixing Vessel 189 gallon
0	D61-MV303 SXS Strip Cell 303 Mixing Vessel 189 gallon
0	D61-MV304 SXS Strip Cell 304 Mixing Vessel 189 gallon
0	D61-MV305 SXS Post-Strip Cell 305 Mixing Vessel 189 gallon
0	D61-STLR301 SXS Strip Cell 301 Settler Tank 498 gallon
0	D61-STLR302 SXS Strip Cell 302 Settler Tank 498 gallon
0	D61-STLR303 SXS Strip Cell 303 Settler Tank 498 gallon
0	D61-STLR304 SXS Strip Cell 304 Settler Tank 498 gallon
0	D61-STLR305 SXS Post-Strip Cell 305 Settler Tank 498 gallon
0	D61-EDU1 SXS NaOH Eductor
0	D61-P103 SXS Feed Tank Pump
0	D61-P104 SXS Feed Tank Pump
0	D61-P108 SXS Barren Organic Disengaged Aqueous Pump
0	D61-P109 SXS Barren Organic Pump
0	D61-P110 SXS Barren Organic Pump
0	D61-P111 SXS Saponified Organic Pump
0	D61-P121 SXS Pregnant Liquor Pump
0	D61-P122 SXS Pregnant Liquor Pump
0	D61-P123 SXS Barren Organic Disengaged Aqueous Pump
0	D61-P138 SXS Scrub Feed Pump
0	D61-P139 SXS Scrub Feed Pump
0	D61-MX108 SXS HCl Mixer
0	D61-HX111A SXS Saponified Organic Cooler
0	D61-AG111A SXS Saponification Tank Agitator
0	D61-AG111B SXS Saponification Tank Agitator
0	D61-TK103 SXS Feed Storage Tank 12500 gallon
0	D61-TK108 SXS Barren Organic Tank 8029 gallon
0	D61-TK111A SXS Saponification Tank A 595 gallon
0	D61-TK111B SXS Saponification Tank B 595 gallon
0	D61-TK114 SXS Raffinate Disengagement Tank 1958 gallon
0	D61-TK121 SXS Pregnant Liquor Tank 1740 gallon

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]