



# 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

B011551

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:**

DIDYMIUM SEPARATION (SXD) CIRCUIT consisting of:

#### **EQUIPMENT**

| Capacity | Equipment Description                                 |
|----------|---|
| 0        | F20-PMV101 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV101 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR101 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV102 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV102 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR102 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV103 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV103 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR103 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV104 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV104 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR104 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV105 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV105 SXD Extraction Mixing Tank 3,805 gallon    |

Fee Schedule: 1 (d)

Rating: 1371.5 bhp

SIC: 1099

SCC: 30599999

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**  
**Eldon Heaston**  
Air Pollution Control Officer

| Capacity | Equipment Description                                 |
|----------|---|
| 0        | F20-STLR105 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV106 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV106 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR106 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV107 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV107 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR107 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV108 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV108 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR108 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV109 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV109 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR109 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV110 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV110 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR110 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV111 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV111 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR111 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV112 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV112 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR112 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV113 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV113 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR113 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV114 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV114 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR114 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV115 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV115 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR115 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV116 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-SMV116 SXD Extraction Mixing Tank 3,805 gallon    |
| 0        | F20-STLR116 SXD Extraction Settling Tank 8,096 gallon |
| 0        | F20-PMV201 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-SMV201 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-STLR201 SXD Scrub Settling Tank 8,096 gallon      |
| 0        | F20-PMV202 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-SMV202 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-STLR202 SXD Scrub Settling Tank 8,096 gallon      |
| 0        | F20-PMV203 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-SMV203 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-STLR203 SXD Scrub Settling Tank 8,096 gallon      |
| 0        | F20-PMV204 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-SMV204 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-STLR204 SXD Scrub Settling Tank 8,096 gallon      |
| 0        | F20-PMV205 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-SMV205 SXD Scrub Mixing Tank 3,805 gallon         |
| 0        | F20-STLR205 SXD Scrub Settling Tank 8,096 gallon      |
| 0        | F20-PMV206 SXD Scrub Mixing Tank 3,805 gallon         |

| Capacity | Equipment Description                            |
|----------|--|
| 0        | F20-SMV206 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR206 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV207 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV207 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR207 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV208 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV208 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR208 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV209 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV209 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR209 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV210 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV210 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR210 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV211 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV211 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR211 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV212 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV212 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR212 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV213 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV213 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR213 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV214 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV214 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR214 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV215 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV215 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR215 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV216 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV216 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR216 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV217 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV217 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR217 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV218 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV218 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR218 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV219 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV219 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR219 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV220 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV220 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR220 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV221 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV221 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR221 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV222 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV222 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR222 SXD Scrub Settling Tank 8,096 gallon |

| Capacity | Equipment Description                            |
|----------|--|
| 0        | F20-PMV223 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV223 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR223 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV224 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV224 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR224 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV225 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV225 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR225 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV226 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV226 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR226 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV227 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV227 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR227 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV228 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV228 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR228 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV229 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV229 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR229 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV230 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV230 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR230 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV231 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV231 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR231 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV232 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV232 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR232 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV233 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV233 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR233 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV234 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV234 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR234 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV235 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV235 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR235 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV236 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-SMV236 SXD Scrub Mixing Tank 3,805 gallon    |
| 0        | F20-STLR236 SXD Scrub Settling Tank 8,096 gallon |
| 0        | F20-PMV301 SXD Strip Mixing Tank 3,805 gallon    |
| 0        | F20-SMV301 SXD Strip Mixing Tank 3,805 gallon    |
| 0        | F20-STLR301 SXD Strip Settling Tank 8,096 gallon |
| 0        | F20-PMV302 SXD Strip Mixing Tank 3,805 gallon    |
| 0        | F20-SMV302 SXD Strip Mixing Tank 3,805 gallon    |
| 0        | F20-STLR302 SXD Strip Settling Tank 8,096 gallon |
| 0        | F20-PMV303 SXD Strip Mixing Tank 3,805 gallon    |
| 0        | F20-SMV303 SXD Strip Mixing Tank 3,805 gallon    |

| Capacity | Equipment Description  |
|----------|--|
| 0        | F20-STLR303 SXD Strip Settling Tank 8,096 gallon               |
| 0        | F20-TK101 SXD Feed Adjustment Tank #1 23,100 gallon            |
| 0        | F20-TK102 SXD Feed Adjustment Tank #2 23,100 gallon            |
| 0        | F20-TK103 SXD Feed Storage Tank 33,000 gallon                  |
| 0        | F20-TK121 SXD Pregnant Liquor Disengagement Tank 10,000 gallon |
| 0        | F20-TK106 SXD Pregnant Liquor Tank 10,000 gallon               |
| 0        | F20-TK114 SXD Raffinate Settler Tank 3,805 gallon              |
| 0        | F20-TK119 SXD Raffinate Holding Tank 10,000 gallon             |
| 0        | F20-TK111 SXD NaOH Mix Tank 23,100 gallon                      |
| 0        | F20-TK107 SXD Barren Organic Pump Tank 3,010 gallon            |
| 0        | F20-TK108 SXD Organic Holding Tank 33,000 gallon               |
| 0        | F20-TK117 SXD Organic Makeup Tank 500 gallon                   |
| 0        | F20-MX101 SXD Feed Adjustment Static Mixer #1 2 gallon         |
| 0        | F20-MX102 SXD Feed Adjustment Static Mixer #2 2 gallon         |
| 0        | F20-MX108 SXD Aqueous Static Mixer 2 gallon                    |
| 25       | F20-P101 SXD Feed Adjustment Pump #1                           |
| 30       | F20-P102 SXD Feed Adjustment Pump #2                           |
| 30       | F20-P120 SXD Feed Adjustment Pump (back up only)               |
| 7.5      | F20-P103 SXD Storage Feed Pump                                 |
| 7.5      | F20-P104 SXD Storage Feed Pump (back up only)                  |
| 15       | F20-P106 SXD Pregnant Liquor Pump                              |
| 15       | F20-P112 SXD Pregnant Liquor Pump (back up only)               |
| 20       | F20-P107 SXD Barrent Organic Pump                              |
| 20       | F20-P125 SXD Barrent Organic Pump (back up only)               |
| 1        | F20-P108 SXD Holding Tank Aqueous Pump                         |
| 15       | F20-P109 SXD Holding Tank Organic Pump                         |
| 15       | F20-P110 SXD Holding Tank Organic Pump (back up only)          |
| 40       | F20-P111 SXD Saponification Tank Pump                          |
| 40       | F20-P126 SXD Saponification Tank Pump (back up only)           |
| 7.5      | F20-P115 SXD Raffinate Pump Tank Pump                          |
| 7.5      | F20-P116 SXD Raffinate Pump Tank Pump (back up only)           |
| 25       | F20-P117 SXD Organic Transfer Pump                             |
| 25       | F20-P119 SXD Raffinate Pump                                    |
| 25       | F20-P124 SXD Raffinate Pump                                    |
| 5        | F20-P121 SXD Disengaged Pregnant Liquor Pump                   |
| 5        | F20-P122 SXD Disengaged Pregnant Liquor Pump (back up only)    |
| 5        | F20-P130 SXD Condensate Return Pump                            |
| 5        | F20-P131 SXD Condensate Return Pump (back up only)             |
| 0        | F20-HX103 SXD Extraction Heat Exchanger                        |
| 0        | F20-HX108 SXD Strip Chiller Aqueous                            |
| 0        | F20-HX109 SXD Strip Heater Aqueous                             |
| 0        | F20-HX110 SXD Scrub Aqueous Cooler                             |
| 0        | F20-HX112 SXD Scrub Aqueous Heater                             |
| 0        | F20-HX111 SXD Extraction Organic Inlet Heat Exchanger          |
| 0        | F20-TK130 SXD Condensate Collection Tank 200 gallon            |
| 15       | F20-PMAG101 SXD Extraction Primary Mixer Agitator 101          |
| 15       | F20-PMAG102 SXD Extraction Primary Mixer Agitator 102          |
| 15       | F20-PMAG103 SXD Extraction Primary Mixer Agitator 103          |
| 15       | F20-PMAG104 SXD Extraction Primary Mixer Agitator 104          |
| 15       | F20-PMAG105 SXD Extraction Primary Mixer Agitator 105          |

| Capacity | Equipment Description                                   |
|----------|---|
| 15       | F20-PMAG106 SXD Extraction Primary Mixer Agitator 106   |
| 15       | F20-PMAG107 SXD Extraction Primary Mixer Agitator 107   |
| 15       | F20-PMAG108 SXD Extraction Primary Mixer Agitator 108   |
| 15       | F20-PMAG109 SXD Extraction Primary Mixer Agitator 109   |
| 15       | F20-PMAG110 SXD Extraction Primary Mixer Agitator 110   |
| 15       | F20-PMAG111 SXD Extraction Primary Mixer Agitator 111   |
| 15       | F20-PMAG112 SXD Extraction Primary Mixer Agitator 112   |
| 15       | F20-PMAG113 SXD Extraction Primary Mixer Agitator 113   |
| 15       | F20-PMAG114 SXD Extraction Primary Mixer Agitator 114   |
| 15       | F20-PMAG115 SXD Extraction Primary Mixer Agitator 115   |
| 15       | F20-PMAG116 SXD Extraction Primary Mixer Agitator 116   |
| 10       | F20-SMAG101 SXD Extraction Secondary Mixer Agitator 101 |
| 10       | F20-SMAG102 SXD Extraction Secondary Mixer Agitator 102 |
| 10       | F20-SMAG103 SXD Extraction Secondary Mixer Agitator 103 |
| 10       | F20-SMAG104 SXD Extraction Secondary Mixer Agitator 104 |
| 15       | F20-PMAG208 SXD Extraction Primary Mixer Agitator 208   |
| 15       | F20-PMAG209 SXD Extraction Primary Mixer Agitator 209   |
| 10       | F20-SMAG105 SXD Extraction Secondary Mixer Agitator 105 |
| 15       | F20-PMAG210 SXD Extraction Primary Mixer Agitator 210   |
| 10       | F20-SMAG106 SXD Extraction Secondary Mixer Agitator 106 |
| 10       | F20-SMAG107 SXD Extraction Secondary Mixer Agitator 107 |
| 15       | F20-PMAG211 SXD Extraction Primary Mixer Agitator 211   |
| 15       | F20-PMAG212 SXD Extraction Primary Mixer Agitator 212   |
| 10       | F20-SMAG108 SXD Extraction Secondary Mixer Agitator 108 |
| 10       | F20-SMAG109 SXD Extraction Secondary Mixer Agitator 109 |
| 15       | F20-PMAG213 SXD Extraction Primary Mixer Agitator 213   |
| 15       | F20-PMAG214 SXD Extraction Primary Mixer Agitator 214   |
| 10       | F20-SMAG110 SXD Extraction Secondary Mixer Agitator 110 |
| 10       | F20-SMAG111 SXD Extraction Secondary Mixer Agitator 111 |
| 15       | F20-PMAG215 SXD Extraction Primary Mixer Agitator 215   |
| 15       | F20-PMAG216 SXD Extraction Primary Mixer Agitator 216   |
| 10       | F20-SMAG112 SXD Extraction Secondary Mixer Agitator 112 |
| 10       | F20-SMAG113 SXD Extraction Secondary Mixer Agitator 113 |
| 15       | F20-PMAG217 SXD Extraction Primary Mixer Agitator 217   |
| 15       | F20-PMAG218 SXD Extraction Primary Mixer Agitator 218   |
| 10       | F20-SMAG114 SXD Extraction Secondary Mixer Agitator 114 |
| 10       | F20-SMAG115 SXD Extraction Secondary Mixer Agitator 115 |
| 15       | F20-PMAG219 SXD Extraction Primary Mixer Agitator 219   |
| 15       | F20-PMAG220 SXD Extraction Primary Mixer Agitator 220   |
| 10       | F20-SMAG116 SXD Extraction Secondary Mixer Agitator 116 |
| 15       | F20-PMAG201 SXD Extraction Primary Mixer Agitator 201   |
| 15       | F20-PMAG221 SXD Extraction Primary Mixer Agitator 221   |
| 15       | F20-PMAG222 SXD Extraction Primary Mixer Agitator 222   |
| 15       | F20-PMAG202 SXD Extraction Primary Mixer Agitator 202   |
| 15       | F20-PMAG203 SXD Extraction Primary Mixer Agitator 203   |
| 15       | F20-PMAG223 SXD Extraction Primary Mixer Agitator 223   |
| 15       | F20-PMAG224 SXD Extraction Primary Mixer Agitator 224   |
| 15       | F20-PMAG204 SXD Extraction Primary Mixer Agitator 204   |
| 15       | F20-PMAG205 SXD Extraction Primary Mixer Agitator 205   |
| 15       | F20-PMAG225 SXD Extraction Primary Mixer Agitator 225   |

| Capacity | Equipment Description   |
|----------|---|
| 15       | F20-PMAG226 SXD Extraction Primary Mixer Agitator 226                     |
| 15       | F20-PMAG206 SXD Extraction Primary Mixer Agitator 206                     |
| 15       | F20-PMAG207 SXD Extraction Primary Mixer Agitator 207                     |
| 15       | F20-PMAG227 SXD Extraction Primary Mixer Agitator 227                     |
| 7.5      | F20-SMAG201 SXD Extraction Secondary Mixer Agitator 201                   |
| 7.5      | F20-SMAG202 SXD Extraction Secondary Mixer Agitator 202                   |
| 7.5      | F20-SMAG203 SXD Extraction Secondary Mixer Agitator 203                   |
| 7.5      | F20-SMAG204 SXD Extraction Secondary Mixer Agitator 204                   |
| 7.5      | F20-SMAG205 SXD Extraction Secondary Mixer Agitator 205                   |
| 7.5      | F20-SMAG206 SXD Extraction Secondary Mixer Agitator 206                   |
| 7.5      | F20-SMAG207 SXD Extraction Secondary Mixer Agitator 207                   |
| 7.5      | F20-SMAG208 SXD Extraction Secondary Mixer Agitator 208                   |
| 7.5      | F20-SMAG209 SXD Extraction Secondary Mixer Agitator 209                   |
| 7.5      | F20-SMAG210 SXD Extraction Secondary Mixer Agitator 210                   |
| 7.5      | F20-SMAG211 SXD Extraction Secondary Mixer Agitator 211                   |
| 7.5      | F20-SMAG212 SXD Extraction Secondary Mixer Agitator 212                   |
| 7.5      | F20-SMAG213 SXD Extraction Secondary Mixer Agitator 213                   |
| 7.5      | F20-SMAG214 SXD Extraction Secondary Mixer Agitator 214                   |
| 7.5      | F20-SMAG215 SXD Extraction Secondary Mixer Agitator 215                   |
| 7.5      | F20-SMAG216 SXD Extraction Secondary Mixer Agitator 216                   |
| 7.5      | F20-SMAG217 SXD Extraction Secondary Mixer Agitator 217                   |
| 7.5      | F20-SMAG218 SXD Extraction Secondary Mixer Agitator 218                   |
| 7.5      | F20-SMAG219 SXD Extraction Secondary Mixer Agitator 219                   |
| 7.5      | F20-SMAG220 SXD Extraction Secondary Mixer Agitator 220                   |
| 7.5      | F20-SMAG221 SXD Extraction Secondary Mixer Agitator 221                   |
| 7.5      | F20-SMAG222 SXD Extraction Secondary Mixer Agitator 222                   |
| 7.5      | F20-SMAG223 SXD Extraction Secondary Mixer Agitator 223                   |
| 7.5      | F20-SMAG224 SXD Extraction Secondary Mixer Agitator 224                   |
| 7.5      | F20-SMAG225 SXD Extraction Secondary Mixer Agitator 225                   |
| 7.5      | F20-SMAG226 SXD Extraction Secondary Mixer Agitator 226                   |
| 7.5      | F20-SMAG227 SXD Extraction Secondary Mixer Agitator 227                   |
| 15       | F20-PMAG301 SXD Extraction Primary Mixer Agitator 301                     |
| 15       | F20-PMAG302 SXD Extraction Primary Mixer Agitator 302                     |
| 15       | F20-PMAG303 SXD Extraction Primary Mixer Agitator 303                     |
| 7.5      | F20-SMAG301 SXD Extraction Secondary Mixer Agitator 301                   |
| 7.5      | F20-SMAG302 SXD Extraction Secondary Mixer Agitator 302                   |
| 7.5      | F20-SMAG303 SXD Extraction Secondary Mixer Agitator 303                   |
| 0        | 561-F20-TK144 Organic Purge Pump Tank 3000 gallon                         |
| 2        | 561-F20-P126 Aqueous Discharge Mist Return                                |
| 5        | 561-F20-P144 Organic Purge Feed Pump A                                    |
| 5        | 561-F20-P145 Organic Purge Feed Pump B                                    |
| 2        | 561-F20-P113 Pregnant Pump Tank Pump A                                    |
| 2        | 561-F20-P114 Pregnant Pump Tank Pump B                                    |
| 0        | 561-F20-TK113 Ancillary Strip Pregnant Disengagement Pump Tank 500 gallon |
| 0        | F20-PMV401 Ancillary StripCell A Mixing Tank 1260 gallon                  |
| 0        | F20-PMV402 Ancillary StripCell B Mixing Tank 1260 gallon                  |
| 0        | F20-PMV403 Ancillary StripCell C Mixing Tank 1260 gallon                  |
| 0        | F20-PMV404 Ancillary StripCell D Mixing Tank 1260 gallon                  |
| 0        | F20-PMV405 Ancillary StripCell E Mixing Tank 1260 gallon                  |
| 0        | F20-PMV406 Ancillary StripCell F Mixing Tank 1260 gallon                  |

| Capacity | Equipment Description                                       |
|----------|---|
| 0        | F20-PMV407 Ancillary StripCell G Mixing Tank 1260 gallon    |
| 7.5      | F20-AG401 Ancillary StripCell A Mixing Tank Agitator        |
| 7.5      | F20-AG402 Ancillary StripCell B Mixing Tank Agitator        |
| 7.5      | F20-AG403 Ancillary StripCell C Mixing Tank Agitator        |
| 7.5      | F20-AG404 Ancillary StripCell D Mixing Tank Agitator        |
| 7.5      | F20-AG405 Ancillary StripCell E Mixing Tank Agitator        |
| 7.5      | F20-AG406 Ancillary StripCell F Mixing Tank Agitator        |
| 7.5      | F20-AG407 Ancillary StripCell G Mixing Tank Agitator        |
| 0        | F20-STLR401 Ancillary StripCell A Settling Tank 3400 gallon |
| 0        | F20-STLR402 Ancillary StripCell B Settling Tank 3400 gallon |
| 0        | F20-STLR403 Ancillary StripCell C Settling Tank 3400 gallon |
| 0        | F20-STLR404 Ancillary StripCell D Settling Tank 3400 gallon |
| 0        | F20-STLR405 Ancillary StripCell E Settling Tank 3400 gallon |
| 0        | F20-STLR406 Ancillary StripCell F Settling Tank 3400 gallon |
| 0        | F20-STLR407 Ancillary StripCell G Settling Tank 3400 gallon |
| 0        | 561-F20-TK407 Barren Organic Pump Tank 3000 gallon          |
| 5        | 561-F20-P123 Barren Organic Tank Pump A                     |
| 5        | 561-F20-P123A Barren Organic Tank Pump B                    |
| 7.5      | 561-F20-P302 Organic Purge Removal Area Sump Pump           |
| 1.5      | 561-F20-P122 Disengaged Aqueous Return Pump                 |
| 0        | 561-F20-TK131 pH Adjustment Mix Tank 500 gallon             |
| 3        | 561-F20-AG131 pH Adjustment Mix Tank Agitator               |
| 0        | 561-F20-TK132 pH Adjustment Mix Tank 500 gallon             |
| 3        | 561-F20-AG132 pH Adjustment Mix Tank Agitator               |
| 0        | 561-F20-TK122 pH Adjustment Overflow Tank 80 gallon         |
| 5        | 561-F20-P701 pH Adjustment Overflow Pump A                  |
| 5        | 561-F20-P702 pH Adjustment Overflow Pump B                  |
| 0        | 561-F20-FI101 Polish Filters                                |
| 0        | 561-F20-TK146 Phosfix Storage 15000 gallon                  |

## CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

[District Rule 1302]

2. This equipment shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles.

[District Rule 1302]

3. The following equipment shall not be operated unless it is vented to a properly functioning SX-12 adsorber under valid District permits C011554 or C011555 and HCl adsorber under valid District permits C011552 or C011553:

- (a) Mixing tanks
- (b) Settling tanks
- (c) Pregnant liquor disengagement tank
- (d) Pregnant liquor tank
- (e) Raffinate settler tank
- (f) Raffinate holding tank
- (g) Barren organic pump tank
- (h) Organic holding tank

- (i) Organic makeup tank
  - (j) Sodium hydroxide mix tank
  - (k) Organic purge pump tank
  - (l) Ancillary strip pregnant disengagement pump tank
  - (m) Ancillary StripCell A Mixing Tank
  - (n) Ancillary StripCell B Mixing Tank
  - (o) Ancillary StripCell C Mixing Tank
  - (p) Ancillary StripCell D Mixing Tank
  - (q) Ancillary StripCell E Mixing Tank
  - (r) Ancillary StripCell F Mixing Tank
  - (s) Ancillary StripCell G Mixing Tank
  - (t) Ancillary StripCell A Settling Tank
  - (u) Ancillary StripCell B Settling Tank
  - (v) Ancillary StripCell C Settling Tank
  - (w) Ancillary StripCell D Settling Tank
  - (x) Ancillary StripCell E Settling Tank
  - (y) Ancillary StripCell F Settling Tank
  - (z) Ancillary StripCell G Settling Tank
  - (aa) Barren Organic Pump Tank
  - (bb) pH Adjustment Mix Tank
  - (cc) pH Adjustment Mix Tank
  - (dd) pH Adjustment Overflow Tank
- [District Rules 1302 and 1320]

4. Actual missions from this facility shall be less than the following:

- a. 42 tons per year of NO<sub>x</sub> [Rule 1303(B)]
  - b. 46 tons per year of PM<sub>10</sub> [Rule 1303(B)]
  - c. 25 tons per year of VOC
  - d. 25 tons per year of SO<sub>x</sub>
  - 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]

5. 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); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]