# MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park AvenueVictorville,CA92392-2310
760.245.1661 -- 800.635.4617 -- FAX760.245.2022

## INACTIVE

C008985

Inactive type Permit has no description information.

## EXPIRES LAST DAY OF:AUGUST 2006

## OWNER OF OPERATOR (Co.#15)

Pacific Gas & Electric/Air Permits
PO Box 28150
Oakland,CA94604-8150

## EQUIPMENT LOCATION (Fac.#39)

PG&E - Topock Compressor Station
145453 National Trails Highway
Needles,CA92363

**Description:**
GROUND WATER TREATMENT SYSTEM NO. 3 consisting of:For the removal of hexavalent chrome (Cr+6) including the following equipment.

## EQUIPMENT

| Capacity | Equipment Description |
|---|---|
| 0 | Iron Oxidation Reactors with Sodium hydroxide injection - 3 each |
| 23 | Four Well Pumps (Pumps P-100 3 hp, P-101 10 hp, P-102 5 hp, P-103 5 hp) |
| 0 | Raw Water Storage Tank (27,000 gallons) |
| 5 | Raw Water Pump (5 hp, 190 gpm) |
| 0 | Static Mixer (150 gpm) |
| 3 | Chemical Mixing Pump (3 hp, 150 gpm) |
| 1.5 | Chromium Reduction Reactor (1.5 hp, 150 gpm, 2300 gallon capacity) |
| 19.5 | Three Iron Oxidation Reactors (6.5 hp, 7020 gallon capacity each) |
| 20 | Air Blower for Iron Oxidation Reactors (20 hp, 270 cfm) |
| 5 | Clarifier Feed Pump (5 hp, 150 gpm) |
| 1.25 | Clarifier & Thickener (1.25 hp, 150 gpm) |
| 0 | Sludge Waste & Recycle Pumps for Clarifier & Thickener (20 gpm each) |
| 5 | Sludge Holding Tank (5 hp, 6400 gallon capacity) |
| 0 | Pretreated Water Tank (9300 gallon capacity) |
| 0 | Microfiltration System (150 gpm) |
| 0 | Reverse Osmosis (RO) Feed Tank (9400 gallon capacity) |

Fee Schedule:7 (h)     Rating:1device     SIC:4939     SCC:99999999     Location/UTM(Km):730E/3844N

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.

Pacific Gas & Electric/Air Permits
PO Box 28150
Oakland,CA94604-8150

By: **COPY**

Brad Poiriez
Air Pollution Control Officer

| Capacity | Equipment Description |
|---|---|
| 10 | Reverse Osmosis Feed Pump (10 hp, 140 gpm) |
| 0 | Reverse Osmosis System (135 gpm) |
| 1 | FD Aerator Blower (1 hp, 200 cfm) |
| 20 | Post-treated RO Permeate Pump (20 hp, 200 gpm) |
| 0 | Treated Water Storage Tank (27,000 gallons) |
| 5 | Treated Water Discharge Pump (5 hp, 150 gpm) |
| 0 | RO Concentrate Tank (8200 gallons) |
| 5 | RO Concentrate Pump (5 hp, 80 gpm) |
| 0 | Treatment Solids Phase Separators (18 cubic yards) |
| 1 | Phase Separator Sump Pump (1 hp, 25 gpm) |
| 0 | Sludge Transfer Pump (20 gpm) |
| 0 | Process Drain Tank (5000 gallons) |
| 5 | Process Drain Pump (5 hp, 175 gpm) |
| 0.5 | Lab Hood (0.5 hp, 1000 cfm) |

## CONDITIONS:

1. An operations log shall be maintained for five (5) years and on-site for at least two (2) years and be made available to District personnel on request. This log shall contain, as a minimum, the amount of ground water extracted and treated each day; the influent concentration of hexavalent chromium; the reverse osmosis permeate concentration of chromium and hexavalent chromium; and the amount of treated water, reverse osmosis concentrate and sludge shipped offsite.

2. This equipment shall only be operated/maintained in strict accord with manufacturer's/supplier's recommendations; sound engineering principles; and/or federal, state, regional and local waste discharge permits.

3. The water flow rate through this treatment system shall not exceed 200,000 gallons per day (approximately 135 gallons per minute).

4. This ground water treatment system shall be operated in a manner to have minimum emissions to the ambient air.

5. This ground water treatment system must be operated in accordance with all permits issued by the Colorado River Basin Regional Water Quality Control Board.