AIR CONTAMINANTS DATA

| Emission | Source | Air Contaminant | Emiss | sion Rates* | | |
|---------------|------------|-----------------|--------------|-------------|-----------------|-------|
| Point No. (1) | Name (2) | Name (3) | #/hr | TPY | | |
| | EMISSION S | OURCES - MAXIMU | JM ALL | OWABLE | EMISSION | RATES |

3158

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for a permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

| Emission Point No. (1) | Source Air Contaminant Name (2) Name (3) | Emission Rates* #/hr TPY | | |
|------------------------|--|-----------------------------|--------------------|--------------|
| , , | | | | |
| 1 | Acid Gas Flare (5) | - | - | - |
| 2 | Spare Regeneration | NOx CO | 0.19 0.04 | 0.58 0.12 |
| | Heater (6) | VOC | 0.04 | 0.12 |
| | | SO2 | 0.03 | 0.08 |
| 3 | Hot Oil Heater | NOx | 1.07 | 3.34 |
| | | CO | 0.21 | 0.67 |
| | | VOC SO2 | 0.06 0.15 | 0.18 0.48 |
| | Old Disat Farmers Floor (F) | | | |
| 4 | Old Plant Emergency Flare (5) - | - | - | |
| 5 | New Regeneration Heater | NOx | 0.27 | 0.83 |
| | | CO | 0.05 | 0.17 |
| | | VOC SO2 | 0.01 0.04 | 0.04 0.12 |
| _ | | | | |
| 6 | Acid Gas Incinerator (7) | NOx CO | 0.74 5.42 23.74 | 2.33 |
| | | VOC | 0.04 | 0.12 |
| | | SO2 | 148.71 | 651.35 |
| 7 | New Plant Emergency Flare (5) | - | - | - |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates* #/hr TPY | | |
|---------------------------|--------------------|-----------------------------|-----------------------------|-------------------------------|--------------------------------|
| 37 | Steam Boiler | | NOx CO VOC SO2 | 0.17 0.03 0.01 0.02 | 0.52 0.10 0.03 0.07 |
| 41/42 | 600 HP Clark | RA-6 | NOx CO VOC SO2 | 26.43 1.85 1.32 0.08 | 115.76 8.10 5.78 0.35 |
| 43/44 | 600 HP Clark | RA-6 (8) | NOx CO VOC SO2 | 26.43 1.85 1.32 0.08 | 115.76 8.10 5.78 0.35 |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates* #/hr TPY | | |
|---------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------------|----------------------------------|
| 45/46 | 600 HP Clark | RA-6 | NOx CO VOC SO2 | 26.43 1.85 1.32 0.08 | 115.76 8.10 5.78 0.35 |
| 47/48 | 600 HP Clark | RA-6 (9), (10) | NOx CO VOC SO2 | 26.43 1.85 1.32 0.08 | 38.32 2.68 1.91 0.12 |
| 50/51 | 600 HP Clark | RA-6 (9), (10) | NOx CO VOC SO2 | 26.43 1.85 1.32 0.08 | 38.32 2.68 1.91 0.12 |
| 52 | 660 HP Worth | nington 58-2 SLHC | NOx CO VOC SO2 | 26.17 2.91 2.91 0.09 | 114.62 12.75 12.75 0.39 |
| 53 | 660 HP Worth | nington 58-2 SLHC | NOx CO VOC SO2 | 26.17 2.91 2.91 0.09 | 114.62 12.75 12.75 0.39 |
| 54 | 660 HP Worth SLHC (8) | nington 58-2 | NOx CO VOC SO2 | 26.17 2.91 2.91 0.09 | 37.95 4.22 4.22 0.13 |
| 56 | 1100 HP Whit 12G825 | e Superior | NOx CO VOC SO2 | 6.47 3.88 0.78 0.15 | 28.34 16.99 3.42 0.66 |
| 61 | 2000 HP Whit | e Superior 12SGTA | NOX CO VOC SO2 | 8.81 7.05 1.41 0.27 | 38.59 30.88 6.18 1.18 |
| 62 | 2000 HP Whit | e Superior 12SGTA | NOx CO | 8.81 7.05 | 38.59 30.88 |

| Emission | Source | Air Contaminant | Emission Rate | <u>S*</u> | |
|---------------|----------|-----------------|----------------------|-----------|------|
| Point No. (1) | Name (2) | Name (3) | #/hr TPY | | |
| , , | | , , | VOC | 1.41 | 6.18 |
| | | | SO2 | 0.27 | 1.18 |

| Emission Point No. (1) | Source Air Contaminant Name (2) Name (3) | Emission Rates* #/hr TPY | | | |
|---------------------------|---|-----------------------------|------|-------------------------------|--------------------------------|
| 63 | 2000 HP White Superior 12SGT | | | 8.81 7.05 1.41 0.27 | 38.59 30.88 6.18 1.18 |
| 69 | Old Regeneration Heater | NOx CO VOC SO2 | 0.19 | 0.58 0.04 0.01 0.03 | 0.12 0.03 0.08 |
| 70 | 2000 HP White Superior 12SGT | NOX CO VOC SO2 | | 8.81 7.05 1.41 0.27 | 38.59 30.88 6.18 1.18 |
| 71 | 3060 HP Solar Centaur Turbine | NOx CO VOC SO2 | | 16.11 7.28 1.01 0.42 | 65.26 12.40 4.42 1.84 |
| 72 | 3060 HP Solar Centaur Turbine | NOx CO VOC SO2 | | 16.11 7.28 1.01 0.42 | 65.26 12.40 4.42 1.84 |
| 73 | 890 HP Solar Saturn Turbine | NOx CO VOC SO2 | | 3.12 10.04 1.57 0.12 | 12.88 16.47 6.88 0.53 |
| 77 | 4.5 MMBtu Amine Reboiler | NOx CO VOC SO2 | | 0.60 0.12 0.03 0.09 | 1.88 0.38 0.10 0.27 |
| 78 | 4.5 MMBtu Amine Reboiler | NOx CO VOC SO2 | | 0.60 0.12 0.03 0.09 | 1.88 0.38 0.10 0.27 |
| 80 | New Glycol Unit | NOx CO | | 0.40 0.08 | 0.63 0.13 |

| Emission | Source | Air Contaminant | Emission Rates* | | | |
|---------------|-----------------|-----------------|-----------------|------------|------|-------|
| Point No. (1) | Name (2) | Name (3) | #/hr | <u>TPY</u> | | |
| , , | , , | | | VOC | 0.02 | 0.03 |
| | | | | SO2 | 0.06 | 0.09 |
| | | | | | | |
| 100 | Process Fugitiv | ves | | VOC | 7.41 | 32.44 |

- (1) Emission point identification either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in General Rule 101.1

Hrs/day __ Days/week _ Weeks/year __ or Hrs/year <u>8,760</u>

- NOx total oxides of nitrogen
- SO2 sulfur dioxide
- CO carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The acid gas flare, the new plant emergency flare and the old plant emergency flare shall be used only for emergency (start-up, shutdown, upset and maintenance) conditions.
- (6) Annual emissions from EPN's 2, 5 and 69 in any combination shall not exceed the annual emissions allowable of EPN's 5 and 69 together.
- (7) Acid gas incinerator emissions are based on an input to the SRU of a maximum of 1900 lbs/hr of sulfur.
- (8) This engine shall be permanently removed from service on or before the date on which the new engines or turbines permitted by the March 15, 1991 amendment achieve normal operation.
- (9) These engines shall be operated no more than 2,900 hours per year once the new engines or turbines permitted by the March 15, 1991 amendment achieve normal operation.
- (10) Until such time as the new engines or turbines achieve normal operation, the annual emissions allowable for these engines shall be the same as those for the other 600 HP Clark RA-6 engines.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Revised