



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

May 29, 2012

Bruce Moore  
Air Quality Manager  
Los Angeles Department of Water and Power  
111 North Hope Street  
Los Angeles, CA 90012

Subject: Los Angeles Department of Water and Power Harbor Generating Station (ID 800170) – Title V Permit Minor Revision

Dear Mr. Moore:

Please find attached the revised Section D of your Title V Facility Permit. The revised sections reflect the approval of the permit revision requested in your Title V Application No. 530708. This permit revision includes the following changes:

| Application # | Device # | Section # | Proposed Actions        |
|---------------|----------|-----------|-------------------------|
| 530707        | D101     | D         | Remove condition I296.1 |
| 530711        | D107     | D         | Remove condition I296.1 |
| 530714        | D113     | D         | Remove condition I296.1 |
| 530715        | D119     | D         | Remove condition I296.1 |
| 530716        | D125     | D         | Remove condition I296.1 |

Please review the attached sections carefully. Insert the enclosed sections into your Title V Facility Permit and discard the earlier version. Questions concerning changes to your permit should be directed to Mr. Li Chen at (909) 396-2426.

Very truly yours,

Brian L. Yeh  
Senior Manager  
Mechanical, Chemical, and Public Services

cc: Mr. Gerardo Rios, USEPA  
BLY:AYL:JTY:LC  
Attachments



## FACILITY PERMIT TO OPERATE

**LA CITY, DWP HARBOR GENERATING STATION  
161 N ISLAND AVE  
WILMINGTON, CA 90744**

### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By 

Mohsen Nazem, P.E.  
Deputy Executive Officer  
Engineering & Compliance



**FACILITY PERMIT TO OPERATE  
LA CITY, DWP HARBOR GENERATING STATION**

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| Equipment   | ID No. | Connected To | RECLAIM Source Type/<br>Monitoring Unit | Emissions*<br>And Requirements   | Conditions   |
|---|--------|--------------|---|--|--|
| <b>Process 1: INTERNAL COMBUSTION; POWER GENERATION</b>   |        |              |   |  |  |
| SELECTIVE CATALYTIC REDUCTION, NO. 10, ENGELHARD, WITH 1671 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 3 FT ; HEIGHT: 51 FT ; LENGTH: 11 FT WITH<br>A/N: 516529<br><br>AMMONIA INJECTION, GRID | C103   | D101         |   | NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002] | A195.10,<br>D12.8, D12.9,<br>D12.10,<br>E179.4,<br>E179.5,<br>E193.1 |
| CO OXIDATION CATALYST, NO. 10, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N: 516529   | C105   | D101         |   |  |  |
| STACK, TURBINE NO. 10<br>A/N: 530707  | S106   |              |   |  |  |

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
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 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
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 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

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|---|--------|--------------|---|---|---|
| <b>Process 1: INTERNAL COMBUSTION; POWER GENERATION</b>   |        |              |   |   |   |
| SELECTIVE CATALYTIC REDUCTION, NO. 11, ENGELHARD, WITH 1671 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 3 FT ; HEIGHT: 51 FT ; LENGTH: 11 FT<br>A/N: 516530 | C109   | D107         |   | NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002] | A195.10,<br>D12.8, D12.9,<br>D12.10,<br>E179.4,<br>E179.5,<br>E193.1,<br>E193.3 |
| CO OXIDATION CATALYST, NO. 11, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N: 516530   | C111   | D107         |   |   |   |
| STACK, TURBINE NO. 11<br>A/N: 530711  | S112   |              |   |   |   |

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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|--|--------|--------------|---|--|---|
| <b>Process 1: INTERNAL COMBUSTION; POWER GENERATION</b>  |        |              |   |  |   |
| SELECTIVE CATALYTIC REDUCTION, NO. 12, ENGELHARD, WITH 1671 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 3 FT ; HEIGHT: 51 FT ; LENGTH: 11 FT<br>A/N: | C115   | D113         |   | NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002] | A195.10,<br>D12.8, D12.9,<br>D12.10,<br>E179.4,<br>E179.5,<br>E193.1,<br>E193.3 |
| CO OXIDATION CATALYST, NO. 12, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N:   | C117   | D113         |   |  |   |
| STACK, TURBINE NO. 12<br>A/N: 530714   | S118   |              |   |  |   |

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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- (5) (5A) (5B) Denotes command and control emission limit
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|--|--------|--------------|---|--|---|
| <b>Process 1: INTERNAL COMBUSTION: POWER GENERATION</b>  |        |              |   |  |   |
| SELECTIVE CATALYTIC REDUCTION, NO. 13, ENGELHARD, WITH 1671 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 3 FT ; HEIGHT: 51 FT ; LENGTH: 11 FT<br>A/N: | C121   | D119         |   | NH3: 5 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002] | A195.10,<br>D12.8, D12.9,<br>D12.10,<br>E179.4,<br>E179.5,<br>E193.1,<br>E193.3 |
| CO OXIDATION CATALYST, NO. 13, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N:   | C123   | D119         |   |  |   |
| STACK, TURBINE NO. 13<br>A/N: 530715   | S124   |              |   |  |   |

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>(3) Denotes RECLAIM concentration limit<br/>(5) (5A) (5B) Denotes command and control emission limit<br/>(7) Denotes NSR applicability limit<br/>(9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>(4) Denotes BACT emission limit<br/>(6) Denotes air toxic control rule limit<br/>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>(10) See section J for NESHAP/MACT requirements</p> |
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|--|--------|--------------|---|---|---|
| <b>Process 1: INTERNAL COMBUSTION; POWER GENERATION</b>  |        |              |   |   |   |
| SELECTIVE CATALYTIC REDUCTION, NO. 14, ENGELHARD, WITH 1671 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 3 FT ; HEIGHT: 51 FT ; LENGTH: 11 FT<br>A/N: | C127   | D125         |   | NH3: 5 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002] | A195.10,<br>D12.8, D12.9,<br>D12.10,<br>E179.4,<br>E179.5,<br>E193.1,<br>E193.3 |
| CO OXIDATION CATALYST, NO. 14, ENGELHARD, WITH 835 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N:   | C129   | D125         |   |   |   |
| STACK, TURBINE NO. 14<br>A/N: 530716   | S130   |              |   |   |   |
| <b>System 2: Combined Cycle Unit No. 1</b>   |        |              |   |   |   |

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|---|---|
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|--|--------|--------------|---|--------------------------------|-----------------------------|
| <b>Process 1: INTERNAL COMBUSTION: POWER GENERATION</b>  |        |              |   |                                |                             |
| GENERATOR, HEAT RECOVERY STEAM, HIGH PRESSURE RATING OF 278,000 LBS/HR<br><br>TURBINE, NO. 4, WESTINGHOUSE ELECTRIC COMPANY, ELECTRICAL, IN COMMON WITH COMBINED CYCLE 2, 86.25 MW<br><br>TURBINE, NO. 5, WESTINGHOUSE ELECTRIC COMPANY, ELECTRICAL, IN COMMON WITH COMBINED CYCLE NO. 1, 86.25 MW |        |              |   |                                |                             |
| OXIDIZER, NO. 1, MONOLITHIC BED TYPE, 280 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N: I91127   | C45    | D43 C46      |   |                                | D12.3, E179.2, E179.3       |
| SELECTIVE CATALYTIC REDUCTION, NO. 1, VANADIUM PENTOXIDE CATALYST BED, 2639 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 24 FT 1.5 IN; HEIGHT: 53 FT 2 IN; LENGTH: 12 FT WITH<br>A/N: I91127<br><br>AMMONIA INJECTION, INJECTION GRID, 1008 INJECTION PORTS   | C46    | C45 S48      |   |                                | C6.1, D12.4, E179.2, E179.3 |
| STACK, GAS TURBINE NO.1<br>A/N: 410702   | S48    | C46          |   |                                |                             |

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|--|--|
| <ul style="list-style-type: none"> <li>* (1) (1A) (1B) Denotes RECLAIM emission factor</li> <li>(3) Denotes RECLAIM concentration limit</li> <li>(5) (5A) (5B) Denotes command and control emission limit</li> <li>(7) Denotes NSR applicability limit</li> <li>(9) See App B for Emission Limits</li> </ul> | <ul style="list-style-type: none"> <li>(2) (2A) (2B) Denotes RECLAIM emission rate</li> <li>(4) Denotes BACT emission limit</li> <li>(6) Denotes air toxic control rule limit</li> <li>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</li> <li>(10) See section J for NESHAP/MACT requirements</li> </ul> |
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|------------|---------------------------------------|--------------|---|---------------------------------|------------|
| Process 1: | INTERNAL COMBUSTION, POWER GENERATION |              |   |                                 |            |
| System 3:  | Combined Cycle Unit No. 2             |              |   |                                 |            |

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| <b>Process 1: INTERNAL COMBUSTION: POWER GENERATION</b>  |        |              |   |                                 |                             |
| GENERATOR, HEAT RECOVERY STEAM, HIGH PRESSURE RATING OF 278,000 LBS/HR<br><br>TURBINE, NO. 5, WESTINGHOUSE ELECTRIC COMPANY, ELECTRICAL, IN COMMON WITH COMBINED CYCLE NO. 1, 86.25 MW<br><br>TURBINE, NO. 4, WESTINGHOUSE ELECTRIC COMPANY, ELECTRICAL, IN COMMON WITH COMBINED CYCLE 2, 86.25 MW |        |              |   |                                 |                             |
| OXIDIZER, NO. 2, MONOLITHIC TYPE BED, 280 CUBIC FEET OF TOTAL CATALYST VOLUME<br>A/N: 191126   | C51    | D49          |   |                                 | D12.3, E179.2, E179.3       |
| SELECTIVE CATALYTIC REDUCTION, NO. 2, VANADIUM PENTOXIDE CATALYST BED, 2639 CUBIC FEET OF TOTAL CATALYST VOLUME, WIDTH: 24 FT 1.5 IN; HEIGHT: 53 FT 2 IN; LENGTH: 12 FT WITH<br>A/N: 191126<br><br>AMMONIA INJECTION, INJECTION GRID, 1008 INJECTION PORTS   | C52    | S54          |   |                                 | C6.1, D12.4, E179.2, E179.3 |
| STACK, GAS TURBINE NO. 2<br>A/N: 410701  | S54    | C52          |   |                                 |                             |

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| <b>Process 1: INTERNAL COMBUSTION; POWER GENERATION</b>   |        |              |   |   |   |
| <b>System 4: Emergency IC Engine</b>  |        |              |   |   |   |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITTA, 4 DEGREE TIMING RETARD, WITH AFTERCOOLER, TURBOCHARGER, 896 HP<br>A/N: 451771                          | D131   |              | NOX: PROCESS UNIT**                     | CO: 8.5 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 6.9 GRAM/BHP-HR (4) [RULE 2005, 5-6-2005]; NOX: 469 LBS/1000 GAL (1) [RULE 2012, 5-6-2005]; PM: 0.38 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; VOC: 1 GRAM/BHP-HR (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002] | B59.1, C1.5, D12.11, E162.1, E193.2, H23.6, K67.7 |
| <b>Process 2: PETROLEUM STORAGE</b>   |        |              |   |   |   |
| STORAGE TANK, FIXED ROOF, NO. 55002, FUEL OIL, 55000 BBL; DIAMETER: 100 FT ; HEIGHT: 40 FT<br>A/N: C25851   | D17    |              |   |   | H23.1   |
| STORAGE TANK, INTERNAL FLOATING ROOF, NO. 45001, FUEL OIL, 45000 BBL; DIAMETER: 102 FT 6 IN; HEIGHT: 55 FT WITH<br>A/N: C25849<br><br>FLOATING ROOF, PONTOON<br><br>PRIMARY SEAL, METALLIC SHOE | D23    |              |   |   | H23.1   |

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|---|--------|--------------|---|--------------------------------|-------------------|
| <b>Process 2: PETROLEUM STORAGE</b>   |        |              |   |                                |                   |
| STORAGE TANK, FIXED ROOF, NO. 55001, FUEL OIL, 55000 BBL;<br>DIAMETER: 100 FT ; HEIGHT: 40 FT<br>A/N: C25850                          | D76    |              |   |                                | H23.1             |
| <b>Process 5: INORGANIC CHEMICAL STORAGE</b>  |        |              |   |                                |                   |
| STORAGE TANK, FIXED ROOF, NO. 1, AQUEOUS AMMONIA, 29950 GALS; DIAMETER: 16 FT ; HEIGHT: 24 FT<br>A/N: 272092                          | D29    | C31          |   |                                | C157.1,<br>E144.1 |
| STORAGE TANK, FIXED ROOF, NO. 2, AQUEOUS AMMONIA, 29950 GALS; DIAMETER: 16 FT ; HEIGHT: 24 FT<br>A/N: 272093                          | D30    | C33          |   |                                | C157.1,<br>E144.1 |
| SPARGER, NO. 1, AMMONIA, 350 GALS<br>A/N: 272092  | C31    | D29 C32      |   |                                | E71.1, K67.5      |
| SCRUBBER, PACKED BED, NO. 1, AMMONIA, POLYPROPYLENE PACKING, WITH A MIST ELIMINATOR, HEIGHT: 8 FT 4 IN; DIAMETER: 2 FT<br>A/N: 272092 | C32    | C31          |   |                                | C8.1, K67.4       |
| SPARGER, NO. 2, AMMONIA, 350 GALS<br>A/N: 272093  | C33    | D30 C34      |   |                                | E71.1, K67.5      |
| SCRUBBER, PACKED BED, NO. 2, AMMONIA, POLYPROPYLENE PACKING, WITH A MIST ELIMINATOR, HEIGHT: 8 FT 4 IN; DIAMETER: 2 FT<br>A/N: 272093 | C34    | C33          |   |                                | C8.1, K67.4       |

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>(3) Denotes RECLAIM concentration limit<br/>(5) (5A) (5B) Denotes command and control emission limit<br/>(7) Denotes NSR applicability limit<br/>(9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>(4) Denotes BACT emission limit<br/>(6) Denotes air toxic control rule limit<br/>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>(10) See section J for NESHAP/MACT requirements</p> |
|---|---|

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment  | ID No. | Connected To | RECLAIM Source Type/<br>Monitoring Unit | Emissions*<br>And Requirements | Conditions   |
|--|--------|--------------|---|--------------------------------|--------------|
| <b>Process 6: OIL/WATER SEPARATION</b>   |        |              |   |                                |              |
| SUMP, WASTE OIL<br>A/N: 457552   | D35    |              |   |                                | H23.4        |
| SUMP, WASTE WATER, CATCH BASIN<br>A/N: 457552  | D36    |              |   |                                | H23.4        |
| OIL WATER SEPARATOR<br>A/N: 457552   | D37    |              |   |                                | H23.4        |
| TANK, HOLDING, WASTE WATER, 550 GALS; DIAMETER: 6 FT; HEIGHT: 4 FT<br>A/N: 457552  | D38    |              |   |                                | H23.4        |
| TANK, WASTE WATER, SKIMMED OIL<br>A/N: 457552  | D39    |              |   |                                | H23.4        |
| SKIMMING POND<br>A/N: 457552   | D40    |              |   |                                | H23.4        |
| WASTE WATER SEPARATOR, HIGHLAND TANK MODEL: HT-4000, 24000 GALS/HR; 4000 GALS; DIAMETER: 5 FT 4 IN; LENGTH: 24 FT<br>A/N: 387101                           | D194   |              |   |                                | B89.1, H23.4 |
| WASTE WATER SEPARATOR, HIGHLAND TANK MODEL: HT-4000, FOR THE MARINE TANK FARM, 24000 GALS/HR; 4000 GALS; DIAMETER: 5 FT 4 IN; LENGTH: 24 FT<br>A/N: 387986 | D195   |              |   |                                | B89.1, H23.4 |
| <b>Process 7: ABRASIVE BLASTING</b>  |        |              |   |                                |              |

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment  | ID No. | Connected To | RECLAIM Source Type/<br>Monitoring Unit | Emissions *<br>And Requirements  | Conditions               |
|--|--------|--------------|---|--|--------------------------|
| <b>Process 7: ABRASIVE BLASTING</b>  |        |              |   |  |                          |
| ABRASIVE BLASTING, OPEN, P.K. LINDSAY, MODEL 100, 50 LBS CAPACITY, ONE NOZZLE, DIAMETER: .19 IN<br>A/N: 123172 | D41    |              |   | PM: (9) [RULE 1140, 8-2-1985]  | D323.2                   |
| ABRASIVE BLASTING, KELCO, MODEL 124-C, 600 LBS CAPACITY, ONE NOZZLE, DIAMETER: .25 IN<br>A/N: 120358           | D42    |              |   | PM: (9) [RULE 1140, 8-2-1985]  | D323.2                   |
| <b>Process 8: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>                                      |        |              |   |  |                          |
| RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS   | E86    |              |   |  | H23.2                    |
| RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER                 | E87    |              |   | PM: (9) [RULE 1140, 8-2-1985;<br>RULE 404, 2-7-1986; RULE 405, 2-7-1986]       | D322.1,<br>D323.3, K67.2 |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, LOW USE OR EMISSIONS   | E88    |              |   | ROG: (9) [RULE 1107, 8-14-1998;<br>RULE 1171, 6-13-1997; RULE 1171, 10-8-1999] |                          |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, COMPRESSORS   | E89    |              |   |  | H23.5                    |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, PUMPS   | E90    |              |   |  | H23.5                    |
| RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED                               | E91    |              |   | ROG: (9) [RULE 1171, 8-2-2002;<br>RULE 1171, 11-7-2003]                        | H23.3                    |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, FLANGES   | E92    |              |   |  | H23.5                    |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, PRV   | E93    |              |   |  | H23.5                    |

- \* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

| Equipment  | ID No. | Connected To | RECLAIM Source Type/<br>Monitoring Unit | Emissions*<br>And Requirements  | Conditions |
|--|--------|--------------|---|---|------------|
| <b>Process 8: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>                              |        |              |   |   |            |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS                         | E94    |              |   | ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]  | K67.3      |
| <b>Process 9: RULE 219 EXEMPT EQUIPMENT SUBJECT TO RULE 222 REPORTING</b>                              |        |              |   |   |            |
| <b>System 1: Pressure Washer</b>   |        |              |   |   |            |
| HEATER, HOT WATER PRESSURE WASHER, DIESEL FUEL, LANDA, MODEL PHW3-710D/F, 0.25 MMBTU/HR<br>A/N: 326501 | D100   |              | NOX: PROCESS UNIT**                     | CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 22 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-11-2001; RULE 2012, 12-5-2003]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982] | C1.4       |
| <b>System 2: NEGATIVE AIR MACHINE</b>  |        |              |   |   |            |
| NEGATIVE AIR MACHINE/HEPA FILTER<br>A/N: 366422  | C132   |              |   | PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]  |            |

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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**FACILITY PERMIT TO OPERATE  
LA CITY, DWP HARBOR GENERATING STATION**

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**SECTION D: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**



**FACILITY PERMIT TO OPERATE  
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**SECTION D: DEVICE ID INDEX**

| Device Index For Section D |                   |         |        |
|----------------------------|-------------------|---------|--------|
| Device ID                  | Section D Page No | Process | System |
| D17                        | 16                | 2       | 0      |
| D23                        | 16                | 2       | 0      |
| D29                        | 17                | 5       | 0      |
| D30                        | 17                | 5       | 0      |
| C31                        | 17                | 5       | 0      |
| C32                        | 17                | 5       | 0      |
| C33                        | 17                | 5       | 0      |
| C34                        | 17                | 5       | 0      |
| D35                        | 18                | 6       | 0      |
| D36                        | 18                | 6       | 0      |
| D37                        | 18                | 6       | 0      |
| D38                        | 18                | 6       | 0      |
| D39                        | 18                | 6       | 0      |
| D40                        | 18                | 6       | 0      |
| D41                        | 19                | 7       | 0      |
| D42                        | 19                | 7       | 0      |
| D43                        | 12                | 1       | 2      |
| C45                        | 12                | 1       | 2      |
| C46                        | 12                | 1       | 2      |
| S48                        | 12                | 1       | 2      |
| D49                        | 15                | 1       | 3      |
| C51                        | 15                | 1       | 3      |
| C52                        | 15                | 1       | 3      |
| S54                        | 15                | 1       | 3      |
| D76                        | 17                | 2       | 0      |
| E86                        | 19                | 8       | 0      |
| E87                        | 19                | 8       | 0      |
| E88                        | 19                | 8       | 0      |
| E89                        | 19                | 8       | 0      |
| E90                        | 19                | 8       | 0      |
| E91                        | 19                | 8       | 0      |
| E92                        | 19                | 8       | 0      |
| E93                        | 19                | 8       | 0      |
| E94                        | 20                | 8       | 0      |
| D100                       | 20                | 9       | 1      |



**FACILITY PERMIT TO OPERATE  
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**SECTION D: DEVICE ID INDEX**

| Device Index For Section D |                    |         |        |
|----------------------------|--------------------|---------|--------|
| Device ID                  | Section D Page No. | Process | System |
| D101                       | 1                  | 1       | 1      |
| C103                       | 2                  | 1       | 1      |
| C105                       | 2                  | 1       | 1      |
| S106                       | 2                  | 1       | 1      |
| D107                       | 3                  | 1       | 1      |
| C109                       | 4                  | 1       | 1      |
| C111                       | 4                  | 1       | 1      |
| S112                       | 4                  | 1       | 1      |
| D113                       | 5                  | 1       | 1      |
| C115                       | 6                  | 1       | 1      |
| C117                       | 6                  | 1       | 1      |
| S118                       | 6                  | 1       | 1      |
| D119                       | 7                  | 1       | 1      |
| C121                       | 8                  | 1       | 1      |
| C123                       | 8                  | 1       | 1      |
| S124                       | 8                  | 1       | 1      |
| D125                       | 9                  | 1       | 1      |
| C127                       | 10                 | 1       | 1      |
| C129                       | 10                 | 1       | 1      |
| S130                       | 10                 | 1       | 1      |
| D131                       | 16                 | 1       | 4      |
| C132                       | 20                 | 9       | 2      |
| D194                       | 18                 | 6       | 0      |
| D195                       | 18                 | 6       | 0      |



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

#### FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 9-11-1998]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

The .05 percent sulfur limit shall not apply to existing supplies of any liquid fuel in storage as of October 1, 1993 until such supply is exhausted.

[RULE 431.2, 5-4-1990]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

purchase records of fuel oil and sulfur content of the fuel

[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 431.2, 2-2-1979]

F21.1 Acid Rain SO<sub>2</sub> Allowance Allocation for retired units are as follows:

| Boiler ID    | Contaminant     | Tons in year |
|--------------|-----------------|--------------|
| Boiler No. 1 | SO <sub>2</sub> | 68           |
| Boiler No. 2 | SO <sub>2</sub> | 120          |
| Boiler No. 3 | SO <sub>2</sub> | 94           |
| Boiler No. 4 | SO <sub>2</sub> | 103          |
| Boiler No. 5 | SO <sub>2</sub> | 170          |



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

- a). The allowance allocation(s) shall apply to calendar years 2000 through 2009.
- b). The number of allowances allocated to Phase II affected units by U.S. EPA may change in a 1998 revision to 40CFR73 Tables 2,3, and 4. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (see 40 CFR 72.84).
- c). A unit exempted under 40CFR72.8 shall not emit any sulfur dioxide starting on the date it is exempted.
- d). The owners and operators of a unit exempted under 40CFR72.8 shall comply with monitoring requirements in accordance with part 75 and will be allocated allowances in accordance with 40CFR73.
- e). A unit exempted under 40CFR73 shall not resume operation unless the designated representative of the source that includes the unit submits an Acid Rain permit application for the unit not less than 24 months prior to the later of January 1, 2000, or the date the unit is to resume operation. On the earlier of the date the written exemption expires or the date an Acid Rain permit application is submitted or is required to be submitted under this paragraph, the unit shall no longer be exempted and shall be subject to all requirements of 40CFR72.

[40CFR 73 Subpart B, 1-11-1993]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

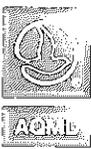
[40CFR 68 - Accidental Release Prevention, 5-24-1996]

### DEVICE CONDITIONS

#### A. Emission Limits

A63.2 The operator shall limit emissions from this equipment as follows:

| CONTAMINANT | EMISSIONS LIMIT                                 |
|-------------|---|
| CO          | Less than or equal to 1920 LBS IN ANY ONE MONTH |
| VOC         | Less than or equal to 570 LBS IN ANY ONE MONTH  |
| PM10        | Less than or equal to 1320 LBS IN ANY ONE MONTH |
| SOX         | Less than or equal to 180 LBS IN ANY ONE MONTH  |



**FACILITY PERMIT TO OPERATE  
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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

**The operator shall comply with the terms and conditions set forth below:**

The operator shall calculate the emission limit(s) The operator shall calculate the emission limit(s) by using monthly fuel use data, and the following emission factors: Natural Gas: VOC - 2.88 lbs/MMSCF, PM10 - 6.93 lbs/MMSCF, and SOx - 0.83 lbs/MMSCF. Diesel: VOC - 1.11 lbs/Mgal, PM10 - 1.67 lbs/Mgal, and SOx - 7.02 lbs/Mgal. For natural gas firing compliance with the CO emission limit shall be verified through CEMS data. For diesel firing compliance with the CO emission limit shall be calculated using the fuel usage data and the lb/Mgal emission factor.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 10-20-2000]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

A99.1 The 9 PPM NOX emission limit(s) shall not apply when this equipment is under initial start up or during normal start up operation (NOX emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A99.2 The 20 PPM NH3 emission limit(s) shall not apply when this equipment is under initial start up or during normal start up operation during natural gas firing (NH3 emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A99.3 The 7 PPM NOX emission limit(s) shall not apply when this equipment is under initial start up or during normal start up operation during natural gas firing (NOX emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

A99.4 The 15 PPM NOX emission limit(s) shall not apply when this equipment is under initial start up or during normal start up operation during fuel oil firing (NOX emissions).

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D43, D49]

A99.5 The 5 PPM NH3 emission limit(s) shall not apply when this equipment is under initial start up or during normal start up operation during fuel oil firing (NH3 emissions).

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D43, D49]

A99.6 The 10 PPM CO emission limit(s) shall not apply when this equipment is under initial start up or during normal start up operation on both fuel oil and natural gas firing (CO emissions).

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D43, D49]

A99.7 The 10 PPM CO emission limit(s) shall not apply during shutdown. The shutdown time shall not exceed 30 minutes per event.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D43, D49]

A99.9 The 34 Lbs/hr NOX emission limit(s) shall only apply during turbine start-ups. The limit does not apply during diesel readiness testing.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

A99.10 The 5 PPM NOX emission limit(s) shall not apply during startup, shutdown, and diesel readiness tests. Startup time shall not exceed 1 hour per occurrence and shutdown time shall not exceed 12 minutes per occurrence. The 5.0 ppmv NOx emission limit shall apply at all other operating times.

**[RULE 2005, 5-6-2005]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

A99.11 The 6 PPM CO emission limit(s) shall not apply during startup, shutdown, and diesel readiness tests. Startup time shall not exceed 1 hour per occurrence and shutdown time shall not exceed 12 minutes per occurrence. The 6.0 ppmv CO emission limit shall apply at all other operating times.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

A195.1 The 10 PPM CO emission limit(s) is averaged over 15 minutes on fuel oil and natural gas (CO emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A195.2 The 10 PPM CO emission limit(s) is averaged over 24 hours on fuel oil and natural gas (CO emissions).



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A195.3 The 5 PPM NH<sub>3</sub> emission limit(s) is averaged over over 15 minutes on fuel oil (NH<sub>3</sub> emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A195.4 The 20 PPM NH<sub>3</sub> emission limit(s) is averaged over 15 minutes and over 24 hours on natural gas (NH<sub>3</sub> emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A195.5 The 15 PPM NO<sub>x</sub> emission limit(s) is averaged over 15 minutes on fuel oil ( NO<sub>x</sub> emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

A195.6 The 9 PPM NO<sub>x</sub> emission limit(s) is averaged over 15 minutes on natural gas (NO<sub>x</sub> emissions).

**[RULE 1303(a)(1)-BACT, 5-10-1996]**



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D43, D49]

A195.7 The 7 PPM NOX emission limit(s) is averaged over 24 hours on natural gas (NOx emissions).

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D43, D49]

A195.8 The 5 PPM NOX emission limit(s) is averaged over 3 hours, at 15 percent oxygen, dry.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D101, D107, D113, D119, D125]

A195.9 The 6 PPM CO emission limit(s) is averaged over 3 hours, at 15 percent oxygen, dry.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D101, D107, D113, D119, D125]

A195.10 The 5 PPM NH3 emission limit(s) is averaged over 60 min at 15 percent O2 dry. The operator shall calculate and continuously record the NH3 slip concentration using:  $NH_3(ppmv) = [a - b * c / 1E6] * 1E6 / b$ , a=NH3 injection rate (lb/hr)/17(lb/lbmole), b=dry exhaust gas flow rate(lb/hr)/29(lb/lbmole), and c=change in measured NOx across the SCR, ppmvd at 15 percent O2. The operator shall install and maintain a NOx analyzer to measure the SCR inlet NOx ppm accurate to within +/- 5 percent calibrated at least once every 12 mo., or seek AQMD approval for alt. slip method.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The ammonia slip calculation procedures described above shall not be used for compliance determination or emission information determination without corroborative data using an approved reference method for determination of ammonia.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C103, C109, C115, C121, C127]

A195.13 The 5 PPMV NOX emission limit(s) is averaged over 720 operating hours (heat input weighted average).

A data acquisition system shall be installed and maintained to continuously calculate and record the NOx ppm based on the 720 operating hour average..

The average shall be calculated based on emissions during all turbine operating hours except startups defined as whenever the unit is being brought up to normal operating temperature from an inactive status, and the exhaust temperature entering the SCR catalyst is less than 500 degrees F (nat gas) or 575 degrees F (fuel oil).

Shutdowns, defined as whenever the unit is allowed to cool from a normal operating temperature to inactive status, and the exhaust temperature entering the SCR catalyst is less 500 degrees F (nat gas) or 575 degrees F (fuel oil), calibration, and maintenance periods, Part 75 linearity testing, RATA testing, equipment breakdown periods as defined in Rule 2004, and periods of zero fuel flow.

The heat input weighted average NOx concentration shall be calculated using the following equation, or other equivalent equation:.

$PPMV(15\%O_2) = (Et/Qt)*K$ ; where  $PPMV(15\%O_2)$  = the concentration of NOx in PPMV at 15%O<sub>2</sub>; K = a conversion factor from lbs/MMBtu to PPM, which can be determined using EPA 40 CFR60 Method 19. The default K value is 275; Et = Total reported NOx emissions during the averaging period including emissions reported as a result of missing data procedures pursuant to Rule 2012; Qt = Total heat input during the averaging period.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[RULE 2009, 5-11-2001]

[Devices subject to this condition : D43, D49]

A327.1 For the purpose of determining compliance with District Rule 475, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 475, 10-8-1976; RULE 475, 8-7-1978]

[Devices subject to this condition : D101, D107, D113, D119, D125]

#### **B. Material/Fuel Type Limits**

B59.1 The operator shall only use the following material(s) in this device :

diesel which meets the specifications of Rule 431.2

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D131]

B61.1 The operator shall not use fuels containing the following specified compounds:

| Compound            | weight percent |
|---------------------|----------------|
| Sulfur greater than | 0.8            |



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

**[40CFR 60 Subpart GG, 3-6-1981]**

[Devices subject to this condition : D43, D49]

B75.1 The operator shall not use fuel oil in this equipment except under the following circumstance(s):

1). Interruption in natural gas service due to unforeseeable failure, malfunction, or natural disaster, not resulting from an intentional or negligent act or omission on the part of the owner or operator,

2). for diesel fuel readiness testing not to exceed 1 hour per month,

or 3) during required initial certification and RATA testing specified by AQMD rules. Fuel oil shall be low nitrogen low sulfur diesel. Sulfur content shall not exceed 15 ppm. Nitrogen content shall not exceed 30 ppm.

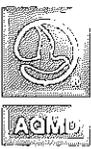
The operator shall keep records of the date diesel was used, the amount of diesel used, and the reason for use.

Vendor specifications for the initial and each subsequent shipment of diesel shall be maintained to verify sulfur and nitrogen content. If no vendor information is available, the operator shall have a sample of each shipment of fuel analyzed by an independent laboratory for sulfur and nitrogen concentration. These records shall be kept for a minimum of 5 years and be made available for AQMD inspection upon request

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 2005, 5-6-2005]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

B75.2 The operator shall not use fuel oil in this equipment except under the following circumstance(s):



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

- 1) Force majeure natural gas curtailment
- 2) Periodic fuel oil readiness testing, not to exceed 1 hour per quarter
- 3) Emissions source testing specified by AQMD rules, including initial certifications of Continuous Emissions Monitoring Systems (CEMS) and semi-annual Relative Accuracy Test Audits (RATAs)

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D43, D49]

- B89.1 The operator shall not use oily water with VOC content greater than 0.005 grams per liter, including water and exempt compounds.

**[RULE 1176, 9-13-1996; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D194, D195]

- B163.1 The operator shall not use fuel oil containing the following:

Fuel oil greater than 500 ppmv nitrogen once the 55,000 barrel tank is depleted. When the tank is depleted, only fuel oil of 150 ppmv nitrogen must be used in accordance with this condition.

Fuel oil greater than 150 ppmv nitrogen except during periods of force majeure, when fuel oil of up to 1000 ppmv nitrogen may be used.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

#### C. Throughput or Operating Parameter Limits

C1.4 The operator shall limit the operating time to no more than 58 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the hot water washer. The operator shall use 1.8 gal/hr as the fuel consumption rate along with the operating time of the engine and the Reclaim emission factor to report emissions.

[RULE 1401, 8-13-1999; **RULE 2012, 12-7-1995**; RULE 2012, 4-9-1999]

[Devices subject to this condition : D100]

C1.5 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

[RULE 1110.2, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996**]

[Devices subject to this condition : D131]

C1.6 The operator shall limit the fuel usage to no more than 192.1 MM cubic feet per month.

The purpose(s) of this condition is to insure compliance with Rule 1303, Offsets. The fuel use records shall be maintained for a minimum of 5 years. The operator shall submit to the AQMD monthly fuel use data at the end of each month during the 1st 12 months of operation.

To comply with this condition, the operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the turbine.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D101, D107, D113, D119, D125]

C6.1 The operator shall use this equipment in such a manner that the ammonia injection rate being monitored, as indicated below, does not exceed 1.23 gallons per minute.

To comply with this condition, the operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia injection rate of the ammonia injection system.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C46, C52]

C6.2 The operator shall use this equipment in such a manner that the power output being monitored, as indicated below, does not exceed 47.4 MW.

To comply with this condition, the operator shall install and maintain a(n) measuring device to accurately indicate the power output of the generator.

The operator shall also install and maintain a device to continuously record the parameter being measured. The measuring device or gauge shall be accurate to within plus or minus 5 percent and shall be calibrated once every 12 months. The averaging time to determine compliance with the limit shall be 1 hour.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D101, D107, D113, D119, D125]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 65 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the incoming scrubbing water. The operator shall calibrate, once a year, the flow of water to be 65 gpm or higher when the scrubber is in use.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C32, C34]

C157.1 The operator shall install and maintain a pressure relief valve set at 15 psig.

[RULE 402, 5-7-1976]

[Devices subject to this condition : D29, D30]

#### **D. Monitoring/Testing Requirements**

D12.1 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the fuel usage of the gas turbine.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

[RULE 1303(b)(2)-Offset, 5-10-1996]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D43, D49]

- D12.2 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the steam-to-fuel ratio in the gas turbine.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The operator shall maintain the steam to fuel ratio between 0.30 and 1.5 except during start ups and shutdowns

**[RULE 1303(b)(2)-Offset, 5-19-1996]**

[Devices subject to this condition : D43, D49]

- D12.3 The operator shall install and maintain a(n) gauge to accurately indicate the temperature at the inlet to the carbon monoxide catalyst (CO CAT) unit.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The operator shall maintain the temperature between 750 and 990 degrees F except during start ups and shutdowns

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : C45, C51]

- D12.4 The operator shall install and maintain a(n) gauge to accurately indicate the temperature at the inlet of the selective catalytic reduction (SCR) unit.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The operator shall also install and maintain a device to continuously record the parameter being measured.

The operator shall maintain the temperature between 420 and 750 degrees F except during start ups and shutdowns

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C46, C52]

D12.7 The operator shall install and maintain a(n) measuring device to accurately indicate the water-to-fuel ratio of the turbine.

The operator shall maintain the water to fuel ratio between 0.00098 and 0.001 except during start ups and shutdowns

[RULE 2012, 5-6-2005; 40CFR 60 Subpart GG, 3-6-1981]

[Devices subject to this condition : D101, D107, D113, D119, D125]

D12.8 The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia injection rate of the ammonia injection system.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The ammonia injection rate shall not exceed 75 lbs per hour.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : C103, C109, C115, C121, C127]

D12.9 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the exhaust at the inlet to the SCR reactor.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The operator shall maintain the temperature between 350 and 825 degrees F except during start ups and shutdowns

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703  
- PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C103, C109, C115, C121, C127]

D12.10 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure across the SCR catalyst bed in inches water column.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once every 12 months.

The pressure differential shall not exceed 3.9 inches water column except during startups and shutdowns.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703  
- PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]**



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : C103, C109, C115, C121, C127]

D12.11 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**  
**RULE 2012, 5-6-2005]**

[Devices subject to this condition : D131]

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted only if the equipment is fired on fuel oil during the life of the permit.

The test shall be conducted at least once during the life of the permit.

Source test shall be conducted when this equipment is using fuel oil.

The test shall be conducted to determine the total PM emissions at the outlet.

The test shall be conducted to demonstrate compliance with Rule 475.

The test shall be conducted to determine the PM emissions using District method 5.1.

[**RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D43, D49]

D28.3 The operator shall conduct source test(s) in accordance with the following specifications:



**FACILITY PERMIT TO OPERATE  
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**The operator shall comply with the terms and conditions set forth below:**

The test shall be conducted to determine the NH3 emissions at the outlet.

The District shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted on natural gas; quarterly during the first 12 months of operation and yearly thereafter.

The test shall be conducted in accordance with SCAQMD test procedures.

The test shall be conducted by a laboratory certified by CARB in the required test methods for testing NH3, and in compliance with District Rule 304 (no conflict of interest).

The test shall be conducted and the results submitted to the District within 45 days after the test date.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

| Pollutant(s) to be tested | Required Test Method(s)  | Averaging Time | Test Location |
|---------------------------|--------------------------|----------------|---------------|
| NH3 emissions             | Approved District method | 1 hour         | Outlet        |



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The test shall be conducted at least quarterly during the first 12 months of operation of the SCR, and at least annually thereafter.

The test shall be conducted to determine the NH<sub>3</sub> emissions at the outlet using District method 207.1 measured over a 60 minute averaging time period. The NO<sub>x</sub> concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NO<sub>x</sub> emissions using District method 100.1.

The test shall be conducted and the results submitted to the District within 45 days after the test date.

The test shall be conducted when the equipment is operating at 80 percent load or greater.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D101, D107, D113, D119, D125]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

| Pollutant(s) to be tested | Required Test Method(s) | Averaging Time | Test Location                            |
|---------------------------|-------------------------|----------------|--|
| NOX emissions             | District method 100.1   | 15 minutes     | Outlet of the SCR serving this equipment |



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The test shall be conducted when the unit is firing diesel fuel in order to determine the emissions profile of the unit. A minimum of 6 tests shall be performed and the operator shall record the turbine output, ammonia injection rate, and temperature of the exhaust during each test, based on a 15 minutes averaging time. Test results shall also include the fuel flow rate (CFH), the flue gas flow rate, and the duct burner fuel use during the test.

The test shall be conducted in order to generate a load curve for NO<sub>x</sub> (lbs/MW) vs. MW output over the span of tested loads. The operator may, after receiving approval from the AQMD, use this curve to report NO<sub>x</sub> emissions during the monthly 60 minute (total) diesel readiness testing periods.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed after approval in writing by the manager of the District's AST Division

The CEMS shall be installed and operated in compliance with the requirements of Rule 218

The CEMS shall be installed and operated to measure the CO emissions over 15 consecutive minute average time periods



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, D49]

D82.2 The operator shall install and maintain a CEMS to measure the following parameters:



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

CO concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated in accordance with an approved AQMD Rule 218 CEMS plan application. The CEMS is not required to be certified during diesel readiness testing. The operator shall not install the CEMS prior to receiving initial approval from AQMD.

The CEMS shall be installed and operated to measure CO concentration over a 15 minute averaging time period

The CEMS shall convert the actual CO concentrations to mass emission rates (lbs/hr) using the equation below and record the hourly emission rates on a continuous basis.

CO Emission Rate, lbs/hr =  $K \cdot C_{co} \cdot F_d \cdot [20.9 / (20.9 - \%O_2d)] \cdot [Q_g \cdot HHV]$ , where:

$K = 7.267 \cdot 10^{-2}$

$C_{co}$  = Average of four consecutive 15-min. average CO concentration in ppm

$F_d$  = 8710 dscf/mmbtu natural gas

$\%O_2d$  = Hourly average percentage by volume O<sub>2</sub> dry, corresponding to  $C_{co}$

$Q_g$  = Fuel gas usage during the hour, scf/hr

HHV = Higher Heating Value of fuel gas, Btu/scf.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 218, 8-7-1981; RULE 218, 5-14-1999**]



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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D101, D107, D113, D119, D125]

**D82.3 The operator shall install and maintain a CEMS to measure the following parameters:**

NOX concentration in ppmv

The CEMS shall be installed and operating no later than 12 months after the initial start-up of the turbine. During the interim period between the initial start-up and the provisional certification date of the CEMS, the operator shall comply with the monitoring requirements of Rule 2012(h)(2) and 2012(h)(3). Within 2 weeks of the turbine start-up date, the operator shall provide written notification to the District of the exact date of start-up

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : D101, D107, D113, D119, D125]

**D90.1 The operator shall periodically analyze the API gravity, sulfur weight percent, and nitrogen weight percent of the fuel oil stored in the fuel oil storage tank according to the following specifications:**

The operator shall use an independent laboratory to analyze the parameter.

**[40CFR 60 Subpart GG, 3-6-1981]**

[Devices subject to this condition : D43, D49]

**D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.**



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**FACILITY PERMIT TO OPERATE  
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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E87]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.



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**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D41, D42]



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

D323.3 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E87]

D371.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment on an annual basis whenever this equipment is fired on fuel oil for training/testing purposes; and after every 400 cumulative hours of operation on diesel fuel or after every two million gallons of diesel fuel combusted, to be counted cumulatively over a five year period. The inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall:

Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three working days (or during the next fuel oil firing period if the unit ceases firing on fuel oil within the three working day time frame) and report any deviations to AQMD.

In addition, the operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- a). Stack or emission point identification;
- b). Description of any corrective actions taken to abate visible emissions;
- c). Date and time visible emission was abated; and
- d). Visible emission observation record by a certified smoke reader.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**



## FACILITY PERMIT TO OPERATE LA CITY, DWP HARBOR GENERATING STATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D43, D49]

#### **E. Equipment Operation/Construction Requirements**

E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C45 [OXIDIZER, NO. 1, MONOLITHIC BED TYPE, 280 CUBIC FEET OF TOTAL CATALYST VOLUME]

Device ID: C46 [SELECTIVE CATALYTIC REDUCTION, NO. 1, VANADIUM PENTOXIDE CATALYST BED, 2639 CUBIC FEET OF TOTAL CATALYST VOLUME]

Requirement number 1: during initial start up of this device, not to exceed 90 days

Requirement number 2: during normal startup on natural gas not to exceed 60 minutes, when the exhaust into the SCR is below 500 degrees Fahrenheit

Requirement number 3: during normal startup on fuel oil not to exceed 60 minutes, when the exhaust into the SCR is below 575 degrees Fahrenheit

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003; RULE 429, 12-21-1990]

[Devices subject to this condition : D43]

E54.2 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:



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**The operator shall comply with the terms and conditions set forth below:**

Device ID: C51 [OXIDIZER, NO. 2, MONOLITHIC TYPE BED, 280 CUBIC FEET OF TOTAL CATALYST VOLUME]

Device ID: C52 [SELECTIVE CATALYTIC REDUCTION, NO. 2, VANADIUM PENTOXIDE CATALYST BED, 2639 CUBIC FEET OF TOTAL CATALYST VOLUME]

Requirement number 1: during initial start up of this device, not to exceed 90 days

Requirement number 2: during normal startup on natural gas not to exceed 60 minutes, when the exhaust into the SCR is below 500 degrees Fahrenheit

Requirement number 3: during normal startup on fuel oil not to exceed 60 minutes, when the exhaust into the SCR is below 575 degrees Fahrenheit

[RULE 2012, 5-11-2001; RULE 2012, 12-5-2003; RULE 429, 12-21-1990]

[Devices subject to this condition : D49]

E57.1 The operator shall vent this equipment to the SCR and CO control catalysts whenever the turbines are in operation.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D101, D107, D113, D119, D125]

E71.1 The operator shall only use this equipment if the water height (from tank bottom to overflow pipe) is at least 6 feet 2 inches.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C31, C33]



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**The operator shall comply with the terms and conditions set forth below:**

E73.2 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use ammonia injection during the following events:

1. during diesel readiness testing
2. when the inlet exhaust temperature to the SCR reactor is 800 deg F or less, not to exceed 1 hour during startups.

[**RULE 1303(a)(1)-BACT, 5-10-1996**; **RULE 1303(a)(1)-BACT, 12-6-2002**; **RULE 402, 5-7-1976**]

[Devices subject to this condition : D101, D107, D113, D119, D125]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D29, D30]

E162.1 The operator shall use this equipment only during utility failure periods, except for maintenance purposes.

[**RULE 1110.2, 6-3-2005**; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996**]

[Devices subject to this condition : D131]

E179.1 For the purpose of the following condition number(s), periodic shall be defined as the initial fuel oil that is burned by the combustion turbine generator and each time any Harbor Generating Station fuel oil storage tank is replenished, the operator shall have a sample of the fuel oil analyzed by an independent laboratory for API gravity, weight percent of sulfur, and weight percent of nitrogen.



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**The operator shall comply with the terms and conditions set forth below:**

Condition Number D 90- 1

**[40CFR 60 Subpart GG, 3-6-1981]**

[Devices subject to this condition : D43, D49]

E179.2 For the purpose of the following condition number(s), continuous monitoring shall be defined as measuring at least once every 15 minutes, except as allowed by Rule 2000.

Condition Number D 12- 1

Condition Number D 12- 2

Condition Number D 12- 3

Condition Number D 12- 4

Condition Number C 6- 1

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, C45, C46, D49, C51, C52]

E179.3 For the purpose of the following condition number(s), continuously record shall be defined as recording at least once every hour and shall be calculated based upon the average of the continuous monitoring for that hour.



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**The operator shall comply with the terms and conditions set forth below:**

Condition Number D 12- 1

Condition Number D 12- 2

Condition Number D 12- 3

Condition Number D 12- 4

Condition Number C 6- 1

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : D43, C45, C46, D49, C51, C52]

E179.4 For the purpose of the following condition number(s), continuous monitoring shall be defined as measuring at least once every hour, and shall be based upon the average of the continuous monitoring for that hour.

Condition Number D 12- 8

Condition Number D 12- 9

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C103, C109, C115, C121, C127]

E179.5 For the purpose of the following condition number(s), continuous monitoring shall be defined as measuring at least once every month, and shall be based upon the average of the continuous monitoring for that month.

Condition Number D 12-10



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**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C103, C109, C115, C121, C127]

E193.1 The operator shall construct, operate, and maintain this equipment according to the following specifications:

In accordance with all mitigation measures as stipulated by the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" Attachment 1 of the Final EIR (SCH No. 2000101008) dated January 2001

[CA PRC CEQA, 11-23-1970]

[Devices subject to this condition : C103, C109, C115, C121, C127]

E193.2 The operator shall operate and maintain this equipment according to the following specifications:

The fuel injection timing of this engine shall be set and maintained at 4 degrees retarded relative to standard production timing at the factory as established by Caterpillar Product News Bulletin "3412 DITTA 500 kw California Configuration" dated July 1993

The equipment may operate for maintenance and testing purpose for up to 30 hours per year.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1470, 11-3-2005]**

[Devices subject to this condition : D131]

E193.3 The operator shall construct this equipment according to the following requirements:



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**The operator shall comply with the terms and conditions set forth below:**

After completion of the catalyst replacement and within 60 days of the first use of the new SCR catalyst the operator shall demonstrate compliance of gas turbine NOx and CO emission limits through CEMS data.

The CEMS data shall include emission data when the gas turbine is operating at 100% and 75% of the maximum load. The CEMS data shall be presented in ppmv, dry and corrected to 15% excess oxygen level.

The operator shall provide records of the CEMS data to the AQMD engineer within 90 days of the new SCR catalyst first use.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1703 - PSD Analysis, 10-7-1988; RULE 2005, 5-6-2005]**

[Devices subject to this condition : C109, C115, C121, C127]

**H. Applicable Rules**

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule          | Rule/Subpart |
|-------------|---------------|--------------|
| VOC         | District Rule | 463          |

**[RULE 463, 3-11-1994]**

[Devices subject to this condition : D17, D23, D76]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule | Rule/Subpart |
|-------------|------|--------------|
|-------------|------|--------------|



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**The operator shall comply with the terms and conditions set forth below:**

Refrigerants | District Rule | 1415

[RULE 1415, 10-14-1994]

[Devices subject to this condition : E86]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule          | Rule/Subpart |
|-------------|---------------|--------------|
| VOC         | District Rule | 1122         |

[RULE 1122, 7-11-1997]

[Devices subject to this condition : E91]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule          | Rule/Subpart |
|-------------|---------------|--------------|
| VOC         | District Rule | 1176         |

[RULE 1176, 9-13-1996]

[Devices subject to this condition : D35, D36, D37, D38, D39, D40, D194, D195]

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule          | Rule/Subpart |
|-------------|---------------|--------------|
| VOC         | District Rule | 1173         |



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**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1173, 5-13-1994]**

[Devices subject to this condition : E89, E90, E92, E93]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant | Rule          | Rule/Subpart |
|-------------|---------------|--------------|
| PM10        | District Rule | 1470         |

**[RULE 1470, 6-1-2007]**

[Devices subject to this condition : D131]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant      | Rule          | Rule/Subpart |
|------------------|---------------|--------------|
| Sulfur compounds | District Rule | 431.1        |

**[RULE 431.1, 6-12-1998]**

[Devices subject to this condition : D43, D49, D101, D107, D113, D119, D125]

**K. Record Keeping/Reporting**

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



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**The operator shall comply with the terms and conditions set forth below:**

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E87]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E94]



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**The operator shall comply with the terms and conditions set forth below:**

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The operator shall monitor and record the date and time the scrubber low and/or high water level alarms occurred

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Devices subject to this condition : C32, C34]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The operator shall monitor the water height on a daily basis and shall not allow the water height to fall below 4 feet

**[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C31, C33]

K67.7 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

date of operation, the elapsed time, in hours, and the reason for operation. Records shall be kept and maintained on file for a minimum of two years and made available to district personnel upon request

**[RULE 1110.2, 6-3-2005; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]**

[Devices subject to this condition : D131]

K171.1 The operator shall notify the District if any of the following situations occur:



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**The operator shall comply with the terms and conditions set forth below:**

Fuel oil firing in this equipment, other than for fuel oil readiness testing.

Notification shall be by mail, facsimile, in person or by telephone.

This notification shall be provided to the District no later than 24 hours after fuel oil firing starts.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D43, D49]