



JUN 132012

JJ Fair Starwood Power 7365 Mission Gorge Rd, Suite C San Diego, CA 92120-1273

Notice of Final Action - Title V Permit Re:

District Facility # C-7286 Project # C-1101711

Dear Mr. Fair:

The District has issued the Final Title V Permit for Starwood Power. The preliminary decision for this project was made on April 13, 2012. No comments were received subsequent to the District preliminary decision. Enclosed are the Final Title V Permit and public notice to be published approximately three days from the date of this letter.

Thank you for your cooperation in this matter. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner

Director of Permit Services

Attachments

Derek Fukuda, Permit Services Engineer CC:

> Seved Sadredin Executive Director/Air Pollution Control Officer





JUN 132012

Gerardo C. Rios. Chief Permits Office (AIR-3) U.S. EPA - Region IX 75 Hawthorne St San Francisco, CA 94105

Notice of Final Action - Title V Permit

District Facility # C-7286 Project # C-1101711

Dear Mr. Rios:

The District has issued the Final Title V Permit for Starwood Power. The preliminary decision for this project was made on April 13, 2012. No comments were received subsequent to the District preliminary decision. Enclosed are the Final Title V Permit and public notice to be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner

Director of Permit Services

Attachments

Derek Fukuda, Permit Services Engineer CC:

> Seyed Sadredin Executive Director/Air Pollution Control Officer

Southern Region





JUN 132012

Mike Tollstrup, Chief Project Assessment Branch Air Resources Board P O Box 2815 Sacramento, CA 95812-2815

Notice of Final Action - Title V Permit

District Facility # C-7286 Project # C-1101711

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Starwood Power. The preliminary decision for this project was made on April 13, 2012. No comments were received subsequent to the District preliminary decision. Enclosed are the Final Title V Permit and public notice to be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely.

David Warner

Director of Permit Services

Attachments

Derek Fukuda, Permit Services Engineer CC:

Seyed Sadredin

Executive Director/Air Pollution Control Officer

Fresno Bee

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT NOTICE OF FINAL DECISION TO ISSUE FEDERALLY MANDATED OPERATING PERMIT

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the initial Federally Mandated Operating Permit to Starwood Power for its power generating facility located at 43627 West Panoche Road in Mendota, California.

The District's analysis of the legal and factual basis for this proposed action, project #C-1101711, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. For additional information regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.





Permit to Operate

FACILITY: C-7286 EXPIRATION DATE: 05/31/2017

LEGAL OWNER OR OPERATOR: STARWOOD POWER-MIDWAY, LLC

MAILING ADDRESS: 7365 MISSION GEORGE ROAD, SUITE C

SAN DIEGO, CA 92120

FACILITY LOCATION: 43699 PANOCHE RD

FIREBAUGH, CA

FACILITY DESCRIPTION: ELECTRICAL SERVICES

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin

Executive Director / APCO

David Warner
Director of Permit Services

FACILITY: C-7286-0-1 EXPIRATION DATE: 05/31/2017

FACILITY-WIDE REQUIREMENTS

- 1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
- The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
- The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
- Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
- The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
- A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
- Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
- The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
- The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7286-0-1: May 30 2012 11:45AM -- FUKUDAD

- 10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
- 11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
- 12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
- 13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
- 14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
- 15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
- 16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
- 17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
- 18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
- 19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
- 20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
- 21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
- 22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

- 23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
- 24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
- 25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
- 26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
- 27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
- 28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
- 29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
- 30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
- 31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
- 32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
- 33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
- 34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
- 35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7286-0-1; May 30 2012 11:45544 – FUKUDAD

- 36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
- 37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
- 38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
- 39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 41. District facilities C-3811 and C-7286 are the same stationary source for District permitting purposes. [District Rule 2201] Federally Enforceable Through Title V Permit
- 42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
- 43. On June 30, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

PERMIT UNIT: C-7286-1-2 **EXPIRATION DATE:** 05/31/2017

EQUIPMENT DESCRIPTION:

30 MW NOMINALLY RATED SIMPLE-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 311 MMBTU/HR PRATT & WHITNEY MODEL FT8-3 SWIFTPAC NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR SERVED BY AN INLET AIR FILTRATION AND COOLING SYSTEM, WATER INJECTION, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND A OXIDATION CATALYST POWERING A 60 MW NOMINALLY RATED ELECTRICAL GENERATOR (SHARED WITH C-7286-2)

PERMIT UNIT REQUIREMENTS

- 1. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve this gas turbine engine. Exhaust ducting may be equipped (if required) with a fresh air inlet blower to be used to lower the exhaust temperature prior to inlet of the SCR system catalyst. The permittee shall submit SCR and oxidation catalyst design details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. Permittee shall submit continuous emission monitor design, installation, and operational details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. The permittee shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits of this permit when no continuous emission monitoring data for NOx is available or when continuous emission monitoring system is not operating properly. [District Rule 4703] Federally Enforceable Through Title V Permit
- 4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
- 6. Combustion turbine generator (CTG) and electrical generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater, except for up to three minutes in any hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
- 7. This CTG shall be fired exclusively on PUC-regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rule 2201 and 40 CFR 60.4330(a)(2)] Federally Enforceable Through Title V Permit
- 8. Emission rates from this CTG, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 2.8 lb/hr and 2.5 ppmvd @ 15% O2; CO 4.19 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 0.82 lb/hr and 2.0 ppmvd @ 15% O2; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit

- 9. Combined emission rates from the CTG's operating under permit units C-7286-1 and C-7286-2, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 5.6 lb/hr and 2.5 ppmvd @ 15% O2; CO 8.38 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 1.64 lb/hr and 2.0 ppmvd @ 15% O2; PM10 3.70 lb/hr; or SOx (as SO2) 1.78 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit
- 10. The ammonia (NH3) emissions from this CTG shall not exceed either of the following limits: 4.24 lb/hr or 10 ppmvd @ 15% O2 over a 24 hour rolling average. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 11. During start-up, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 30.0 lb/hr; CO 12.5 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 12. During shutdown, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 1.50 lb/hr; CO 21.33 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 13. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operations. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 14. The duration of each startup or shut down time shall not exceed two hours. Startup and shutdown emissions shall be counted toward all applicable emission limits. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 15. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
- Daily emissions from the CTG shall not exceed any of the following limits: NOx (as NO2) 79.8 lb/day; CO 117.6 lb/day; VOC 19.7 lb/day; PM10 44.4 lb/day; or SOx (as SO2) 21.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. Combined daily emissions from the CTG's operating under permit units C-7286-1 and C-7286-2 shall not exceed any of the following limits: NOx (as NO2) 159.6 lb/day; CO 235.2 lb/day; VOC 39.4 lb/day; PM10 88.8 lb/day; or SOx (as SO2) 42.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 18. Quarterly hours of operation of this CTG shall not exceed any of the following limits: 1st Quarter 800 hours, 2nd Quarter 800 hours, 3rd Quarter 1,400 hours, or 4th Quarter 1,000 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
- Annual emissions from this CTG, calculated on a twelve month rolling basis, shall not exceed any of the following limits: NOx (as NO2) - 12,736 lb/year; CO - 18,826 lb/year; VOC - 3,281 lb/year; PM10 - 7,400 lb/year; or SOx (as SO2) - 3,560 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 20. Combined annual emissions from the CTG's operating under permit units C-7286-1 and C-7286-2, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 25,742 lb/year; CO 37,652 lb/year; VOC 6,562 lb/year; PM10 14,800 lb/year; or SOx (as SO2) 7,120 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 21. The combined annual NOx emissions from the CTG's operating under permits C-7286-1, C-7286-2, C-7286-3 and C-7286-4, calculated on a twelve consecutive month rolling basis, shall not exceed 50,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit

- 22. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. [District Rule 2201] Federally Enforceable Through Title V Permit
- 23. Daily emissions will be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each month in the twelve consecutive month rolling average emissions shall commence at the beginning of the first day of the month. The twelve consecutive month rolling average emissions to determine compliance with annual emissions limitations shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: (ppmvd @ 15% O2) = ((a (b x c/1,000,000)) x (1,000,000 / b)) x d, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) Utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.)

 Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 25. Source testing to measure startup and shutdown NOx, CO, and VOC mass emission rates shall be conducted for one SwiftPac unit (two paired turbines operating under units C-7286-1 and C-7286-2 or C-7286-3 and C-7286-4) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR 60, Appendix B. If CEM data is not certifiable to determine compliance with NOx and CO startup emission limits, then source testing to measure startup NOx and CO mass emission rates shall be conducted at least once every 12 months. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 26. Source testing to determine compliance with NOx, CO, VOC and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted at least once every 12 months. The source testing frequency may be reduced to once every 24 months if the actual operation of units C-7286-1 and C-7286-2 combined is less than 877 hours during any 12 consecutive month rolling period. NOx emission concentration at the SCR inlet shall be determined for 90%, and 100% loads during compliance testing by measuring NOx emissions at each load for a minimum of 5 minutes or until NOx concentration has stabilized. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 27. Source testing shall be conducted while units C-7286-1 and C-7286-2 are operating simultaneously. If unit C-7286-1 operates independently from unit C-7286-2 for more than 400 hours during any given calendar year, source testing shall also be conducted while unit C-7286-1 is operating independently. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 28. The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored within 60 days of the end of the commission period and weekly thereafter. If the sulfur content is demonstrated to be less than 1.0 gr/100 scf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume. [40 CFR 60.4360, 60.4365(a) and 60.4370(c)] Federally Enforceable Through Title V Permit
- 29. The following test methods shall be used: NOx EPA Method 7E or 20; CO EPA Method 10 or 10B; VOC EPA Method 18 or 25; PM10 EPA Method 5/202 (front half and back half) or 201 and 202a; ammonia BAAQMD ST-1B; and O2 EPA Method 3, 3A, or 20. EPA approved alternative test methods, as approved by the District, may also be used to address the source testing requirements of this permit. [District Rules 1081 and 4703 and 40 CFR 60.4400(1)(i)] Federally Enforceable Through Title V Permit

- 30. Fuel sulfur content shall be monitored using one of the following methods: ASTM Methods D1072, D3246, D4084, D4468, D4810, D6228, D6667 or Gas Processors Association Standard 2377. [40 CFR 60.4415(a)(1)(i)] Federally Enforceable Through Title V Permit
- 31. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
- 32. Compliance demonstration (source testing) shall be District witnessed, or authorized and samples shall be collected by a California Air Resources Board certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081 and 40 CFR 60.4375(b)] Federally Enforceable Through Title V Permit
- 33. The CTG shall be equipped with a continuous monitoring system to measure and record fuel consumption. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 34. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NOx, CO and O2 concentrations. Continuous emissions monitor(s) shall be capable of monitoring emissions during normal operating conditions, and during startups and shutdowns provided the CEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of CEMS cannot be demonstrated during startup conditions, CEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this document. [District Rules 1080 and 4703 and 40 CFR 60.4335(b)(1)] Federally Enforceable Through Title V Permit
- 35. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080 and 40 CFR 60.4345(b)] Federally Enforceable Through Title V Permit
- 36. The NOx, CO and O2 CEMS shall meet the requirements in 40 CFR 75, Appendix A, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.4345(a)] Federally Enforceable Through Title V Permit
- 37. The owner/operator shall perform audits of the CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every QA operating quarter, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next audit. No more than four successive calendar quarters shall elapse after the quarter in which an audit was last performed without a subsequent audit having been conducted. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080 and 4703, 6.2.3, 40 CFR 60.4345(e) and 40 CFR 75, Appendix B] Federally Enforceable Through Title V Permit
- 38. The owner/operator shall perform a relative accuracy test audit (RATA) for the NOx, CO and O2 CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every two QA operating quarters. The RATA frequency may be reduced to at least once every four QA operating quarters if the incentive criteria of 40 CFR 75, Appendix B, Section 2.3.1.2 has been met. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next RATA. No more than eight successive calendar quarters shall elapse after the quarter in which a RATA was last performed without a subsequent RATA having been conducted. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendices A and B. [District Rule 1080, 40 CFR 60.4345(a) and 40 CFR 75, Appendices A & B] Federally Enforceable Through Title V Permit

- 39. For the purposes of performing quarterly audits and RATA on the CEMS, a QA operating quarter shall be defined as a calendar quarter in which there are at least 168 unit operating hours, or, for a common stack or bypass stack, a calendar quarter in which there are at least 168 stack operating hours. An operating hour is defined as a clock hour during which a unit combusts any fuel, either for part of the hour or for the entire hour. [40 CFR 72] Federally Enforceable Through Title V Permit
- 40. Results of the CEM system shall be averaged over a one hour period for NOx emissions and a three hour period for CO emissions using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60.13. [District Rule 4703 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
- 41. Excess NOx emissions shall be defined as any operating hour in which the 1-hour rolling average NOx concentration exceeds an applicable emissions limit. A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both). [40 CFR 60.4350(g) and 40 CFR 60.4380(b)(1)] Federally Enforceable Through Title V Permit
- 42. Results of continuous emissions monitoring shall be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
- 43. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
- 44. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
- 45. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
- 46. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess NOx emissions, nature and the cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 60.4375(a) and 60.4395] Federally Enforceable Through Title V Permit
- 47. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rule 1080] Federally Enforceable Through Title V Permit
- 48. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, and maintenance of any continuous emission monitor.

 [District Rules 1080, 2201 and 4703 and 40 CFR 60.8(d)] Federally Enforceable Through Title V Permit
- 49. The permittee shall maintain the following records: hours of operation, fuel consumption (scf/hr and scf/rolling twelve month period), continuous emission monitor measurements, calculated ammonia slip, and calculated NOx mass emission rates (lb/hr, lb/qtr and lb/twelve month rolling period). [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 50. All records shall be maintained and retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070, 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT: C-7286-2-2

EXPIRATION DATE: 05/31/2017

EQUIPMENT DESCRIPTION:

30 MW NOMINALLY RATED SIMPLE-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 311 MMBTU/HR PRATT & WHITNEY MODEL FT8-3 SWIFTPAC NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR SERVED BY AN INLET AIR FILTRATION AND COOLING SYSTEM, WATER INJECTION, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND A OXIDATION CATALYST POWERING A 60 MW NOMINALLY RATED ELECTRICAL GENERATOR (SHARED WITH C-7286-1)

PERMIT UNIT REQUIREMENTS

- A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve this gas turbine engine. Exhaust
 ducting may be equipped (if required) with a fresh air inlet blower to be used to lower the exhaust temperature prior to
 inlet of the SCR system catalyst. The permittee shall submit SCR and oxidation catalyst design details to the District
 at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V
 Permit
- 2. Permittee shall submit continuous emission monitor design, installation, and operational details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. The permittee shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits of this permit when no continuous emission monitoring data for NOx is available or when continuous emission monitoring system is not operating properly. [District Rule 4703] Federally Enforceable Through Title V Permit
- 4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
- 6. Combustion turbine generator (CTG) and electrical generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater, except for up to three minutes in any hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
- 7. This CTG shall be fired exclusively on PUC-regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rule 2201 and 40 CFR 60.4330(a)(2)] Federally Enforceable Through Title V Permit
- 8. Emission rates from this CTG, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 2.8 lb/hr and 2.5 ppmvd @ 15% O2; CO 4.19 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 0.82 lb/hr and 2.0 ppmvd @ 15% O2; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7285-2-2: May 29 2012 9:52AM - FUKUDAD

- 9. Combined emission rates from the CTG's operating under permit units C-7286-1 and C-7286-2, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 5.6 lb/hr and 2.5 ppmvd @ 15% O2; CO 8.38 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 1.64 lb/hr and 2.0 ppmvd @ 15% O2; PM10 3.70 lb/hr; or SOx (as SO2) 1.78 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit
- 10. The ammonia (NH3) emissions from this CTG shall not exceed either of the following limits: 4.24 lb/hr or 10 ppmvd @ 15% O2 over a 24 hour rolling average. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 11. During start-up, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 30.0 lb/hr; CO 12.5 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 12. During shutdown, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 1.50 lb/hr; CO 21.33 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 13. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operations. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 14. The duration of each startup or shut down time shall not exceed two hours. Startup and shutdown emissions shall be counted toward all applicable emission limits. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 15. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
- 16. Daily emissions from the CTG shall not exceed any of the following limits: NOx (as NO2) 79.8 lb/day; CO 117.6 lb/day; VOC 19.7 lb/day; PM10 44.4 lb/day; or SOx (as SO2) 21.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. Combined daily emissions from the CTG's operating under permit units C-7286-1 and C-7286-2 shall not exceed any of the following limits: NOx (as NO2) 159.6 lb/day; CO 235.2 lb/day; VOC 39.4 lb/day; PM10 88.8 lb/day; or SOx (as SO2) 42.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 18. Quarterly hours of operation of this CTG shall not exceed any of the following limits: 1st Quarter 800 hours, 2nd Quarter 800 hours, 3rd Quarter 1,400 hours, or 4th Quarter 1,000 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
- 19. Annual emissions from this CTG, calculated on a twelve month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 12,736 lb/year; CO 18,826 lb/year; VOC 3,281 lb/year; PM10 7,400 lb/year; or SOx (as SO2) 3,560 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 20. Combined annual emissions from the CTG's operating under permit units C-7286-1 and C-7286-2, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 25,742 lb/year; CO 37,652 lb/year; VOC 6,562 lb/year; PM10 14,800 lb/year; or SOx (as SO2) 7,120 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 21. The combined annual NOx emissions from the CTG's operating under permits C-7286-1, C-7286-2, C-7286-3 and C-7286-4, calculated on a twelve consecutive month rolling basis, shall not exceed 50,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7286-2-2: May 29 2012 9:52AM – FUKUDAO

- 22. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. [District Rule 2201] Federally Enforceable Through Title V Permit
- 23. Daily emissions will be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each month in the twelve consecutive month rolling average emissions shall commence at the beginning of the first day of the month. The twelve consecutive month rolling average emissions to determine compliance with annual emissions limitations shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: (ppmvd @ 15% O2) = ((a (b x c/1,000,000)) x (1,000,000 / b)) x d, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) Utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.)

 Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 25. Source testing to measure startup and shutdown NOx, CO, and VOC mass emission rates shall be conducted for one SwiftPac unit (two paired turbines operating under units C-7286-1 and C-7286-2 or C-7286-3 and C-7286-4) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR 60, Appendix B. If CEM data is not certifiable to determine compliance with NOx and CO startup emission limits, then source testing to measure startup NOx and CO mass emission rates shall be conducted at least once every 12 months. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 26. Source testing to determine compliance with NOx, CO, VOC and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted at least once every 12 months. The source testing frequency may be reduced to once every 24 months if the actual operation of units C-7286-1 and C-7286-2 combined is less than 877 hours during any 12 consecutive month rolling period. NOx emission concentration at the SCR inlet shall be determined for 90%, and 100% loads during compliance testing by measuring NOx emissions at each load for a minimum of 5 minutes or until NOx concentration has stabilized. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 27. Source testing shall be conducted while units C-7286-1 and C-7286-2 are operating simultaneously. If unit C-7286-1 operates independently from unit C-7286-2 for more than 400 hours during any given calendar year, source testing shall also be conducted while unit C-7286-2 is operating independently. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 28. The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored within 60 days of the end of the commission period and weekly thereafter. If the sulfur content is demonstrated to be less than 1.0 gr/100 scf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume. [40 CFR 60.4360, 60.4365(a) and 60.4370(c)] Federally Enforceable Through Title V Permit
- 29. The following test methods shall be used: NOx EPA Method 7E or 20; CO EPA Method 10 or 10B; VOC EPA Method 18 or 25; PM10 EPA Method 5/202 (front half and back half) or 201 and 202a; ammonia BAAQMD ST-1B; and O2 EPA Method 3, 3A, or 20. EPA approved alternative test methods, as approved by the District, may also be used to address the source testing requirements of this permit. [District Rules 1081 and 4703 and 40 CFR 60.4400(1)(i)] Federally Enforceable Through Title V Permit

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7286-2-2: Mey 29 2012 9:52AM - FUKUDAD

- 30. Fuel sulfur content shall be monitored using one of the following methods: ASTM Methods D1072, D3246, D4084, D4468, D4810, D6228, D6667 or Gas Processors Association Standard 2377. [40 CFR 60.4415(a)(1)(i)] Federally Enforceable Through Title V Permit
- 31. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
- 32. Compliance demonstration (source testing) shall be District witnessed, or authorized and samples shall be collected by a California Air Resources Board certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081 and 40 CFR 60.4375(b)] Federally Enforceable Through Title V Permit
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- 35. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080 and 40 CFR 60.4345(b)] Federally Enforceable Through Title V Permit
- 36. The NOx, CO and O2 CEMS shall meet the requirements in 40 CFR 75, Appendix A, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.4345(a)] Federally Enforceable Through Title V Permit
- 37. The owner/operator shall perform audits of the CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every QA operating quarter, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next audit. No more than four successive calendar quarters shall elapse after the quarter in which an audit was last performed without a subsequent audit having been conducted. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080 and 4703, 6.2.3, 40 CFR 60.4345(e) and 40 CFR 75, Appendix B] Federally Enforceable Through Title V Permit
- 38. The owner/operator shall perform a relative accuracy test audit (RATA) for the NOx, CO and O2 CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every two QA operating quarters. The RATA frequency may be reduced to at least once every four QA operating quarters if the incentive criteria of 40 CFR 75, Appendix B, Section 2.3.1.2 has been met. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next RATA. No more than eight successive calendar quarters shall elapse after the quarter in which a RATA was last performed without a subsequent RATA having been conducted. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendices A and B. [District Rule 1080, 40 CFR 60.4345(a) and 40 CFR 75, Appendices A & B] Federally Enforceable Through Title V Permit

- 39. For the purposes of performing quarterly audits and RATA on the CEMS, a QA operating quarter shall be defined as a calendar quarter in which there are at least 168 unit operating hours, or, for a common stack or bypass stack, a calendar quarter in which there are at least 168 stack operating hours. An operating hour is defined as a clock hour during which a unit combusts any fuel, either for part of the hour or for the entire hour. [40 CFR 72] Federally Enforceable Through Title V Permit
- 40. Results of the CEM system shall be averaged over a one hour period for NOx emissions and a three hour period for CO emissions using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60.13. [District Rule 4703 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
- 41. Excess NOx emissions shall be defined as any operating hour in which the 1-hour rolling average NOx concentration exceeds an applicable emissions limit. A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both). [40 CFR 60.4350(g) and 40 CFR 60.4380(b)(1)] Federally Enforceable Through Title V Permit
- 42. Results of continuous emissions monitoring shall be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
- 43. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
- 44. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
- 45. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
- 46. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess NOx emissions, nature and the cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 60.4375(a) and 60.4395] Federally Enforceable Through Title V Permit
- 47. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rule 1080] Federally Enforceable Through Title V Permit
- 48. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, and maintenance of any continuous emission monitor.

 [District Rules 1080, 2201 and 4703 and 40 CFR 60.8(d)] Federally Enforceable Through Title V Permit
- 49. The permittee shall maintain the following records: hours of operation, fuel consumption (scf/hr and scf/rolling twelve month period), continuous emission monitor measurements, calculated ammonia slip, and calculated NOx mass emission rates (lb/hr, lb/qtr and lb/twelve month rolling period). [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 50. All records shall be maintained and retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070, 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT: C-7286-3-2

EXPIRATION DATE: 05/31/2017

EQUIPMENT DESCRIPTION:

30 MW NOMINALLY RATED SIMPLE-CYCLE POWER GENERATING SYSTEM #3 CONSISTING OF A 311 MMBTU/HR PRATT & WHITNEY MODEL FT8-3 SWIFTPAC NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR SERVED BY AN INLET AIR FILTRATION AND COOLING SYSTEM, WATER INJECTION, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND A OXIDATION CATALYST POWERING A 60 MW NOMINALLY RATED ELECTRICAL GENERATOR (SHARED WITH C-7286-4)

PERMIT UNIT REQUIREMENTS

- 1. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve this gas turbine engine. Exhaust ducting may be equipped (if required) with a fresh air inlet blower to be used to lower the exhaust temperature prior to inlet of the SCR system catalyst. The permittee shall submit SCR and oxidation catalyst design details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. Permittee shall submit continuous emission monitor design, installation, and operational details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. The permittee shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits of this permit when no continuous emission monitoring data for NOx is available or when continuous emission monitoring system is not operating properly. [District Rule 4703] Federally Enforceable Through Title V Permit
- 4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
- 5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
- 6. Combustion turbine generator (CTG) and electrical generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater, except for up to three minutes in any hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
- 7. This CTG shall be fired exclusively on PUC-regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rule 2201 and 40 CFR 60.4330(a)(2)] Federally Enforceable Through Title V Permit
- 8. Emission rates from this CTG, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 2.8 lb/hr and 2.5 ppmvd @ 15% O2; CO 4.19 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 0.82 lb/hr and 2.0 ppmvd @ 15% O2; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7286-3-2: May 29 2012 9 52AM – FUKUDAD

- 9. Combined emission rates from the CTG's operating under permit units C-7286-3 and C-7286-4, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 5.6 lb/hr and 2.5 ppmvd @ 15% O2; CO 8.38 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 1.64 lb/hr and 2.0 ppmvd @ 15% O2; PM10 3.70 lb/hr; or SOx (as SO2) 1.78 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit
- 10. The ammonia (NH3) emissions from this CTG shall not exceed either of the following limits: 4.24 lb/hr or 10 ppmvd @ 15% O2 over a 24 hour rolling average. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 11. During start-up, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 30.0 lb/hr; CO 12.5 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 12. During shutdown, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 1.50 lb/hr; CO 21.33 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 13. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operations. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 14. The duration of each startup or shut down time shall not exceed two hours. Startup and shutdown emissions shall be counted toward all applicable emission limits. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 15. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
- Daily emissions from the CTG shall not exceed any of the following limits: NOx (as NO2) 79.8 lb/day; CO 117.6 lb/day; VOC 19.7 lb/day; PM10 44.4 lb/day; or SOx (as SO2) 21.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. Combined daily emissions from the CTG's operating under permit units C-7286-3 and C-7286-4 shall not exceed any of the following limits: NOx (as NO2) 159.6 lb/day; CO 235.2 lb/day; VOC 39.4 lb/day; PM10 88.8 lb/day; or SOx (as SO2) 42.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 18. Quarterly hours of operation of this CTG shall not exceed any of the following limits: 1st Quarter 800 hours, 2nd Quarter 800 hours, 3rd Quarter 1,400 hours, or 4th Quarter 1,000 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
- 19. Annual emissions from this CTG, calculated on a twelve month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 12,736 lb/year; CO 18,826 lb/year; VOC 3,281 lb/year; PM10 7,400 lb/year; or SOx (as SO2) 3,560 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 20. Combined annual emissions from the CTG's operating under permit units C-7286-3 and C-7286-4, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 25,742 lb/year; CO 37,652 lb/year; VOC 6,562 lb/year; PM10 14,800 lb/year; or SOx (as SO2) 7,120 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 21. The combined annual NOx emissions from the CTG's operating under permits C-7286-1, C-7286-2, C-7286-3 and C-7286-4, calculated on a twelve consecutive month rolling basis, shall not exceed 50,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit

- 22. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. [District Rule 2201] Federally Enforceable Through Title V Permit
- 23. Daily emissions will be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each month in the twelve consecutive month rolling average emissions shall commence at the beginning of the first day of the month. The twelve consecutive month rolling average emissions to determine compliance with annual emissions limitations shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: (ppmvd @ 15% O2) = ((a (b x c/1,000,000)) x (1,000,000 / b)) x d, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) Utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.)

 Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 25. Source testing to measure startup and shutdown NOx, CO, and VOC mass emission rates shall be conducted for one SwiftPac unit (two paired turbines operating under units C-7286-1 and C-7286-2 or C-7286-3 and C-7286-4) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR 60, Appendix B. If CEM data is not certifiable to determine compliance with NOx and CO startup emission limits, then source testing to measure startup NOx and CO mass emission rates shall be conducted at least once every 12 months. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 26. Source testing to determine compliance with NOx, CO, VOC and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted at least once every 12 months. The source testing frequency may be reduced to once every 24 months if the actual operation of units C-7286-3 and C-7286-4 combined is less than 877 hours during any 12 consecutive month rolling period. NOx emission concentration at the SCR inlet shall be determined for 90%, and 100% loads during compliance testing by measuring NOx emissions at each load for a minimum of 5 minutes or until NOx concentration has stabilized. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 27. Source testing shall be conducted while units C-7286-3 and C-7286-4 are operating simultaneously. If unit C-7286-3 operates independently from unit C-7286-4 for more than 400 hours during any given calendar year, source testing shall also be conducted while unit C-7286-3 is operating independently. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 28. The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored within 60 days of the end of the commission period and weekly thereafter. If the sulfur content is demonstrated to be less than 1.0 gr/100 scf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume. [40 CFR 60.4360, 60.4365(a) and 60.4370(c)] Federally Enforceable Through Title V Permit
- 29. The following test methods shall be used: NOx EPA Method 7E or 20; CO EPA Method 10 or 10B; VOC EPA Method 18 or 25; PM10 EPA Method 5/202 (front half and back half) or 201 and 202a; ammonia BAAQMD ST-1B; and O2 EPA Method 3, 3A, or 20. EPA approved alternative test methods, as approved by the District, may also be used to address the source testing requirements of this permit. [District Rules 1081 and 4703 and 40 CFR 60.4400(1)(i)] Federally Enforceable Through Title V Permit

- 30. Fuel sulfur content shall be monitored using one of the following methods: ASTM Methods D1072, D3246, D4084, D4468, D4810, D6228, D6667 or Gas Processors Association Standard 2377. [40 CFR 60.4415(a)(1)(i)] Federally Enforceable Through Title V Permit
- 31. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
- 32. Compliance demonstration (source testing) shall be District witnessed, or authorized and samples shall be collected by a California Air Resources Board certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081 and 40 CFR 60.4375(b)] Federally Enforceable Through Title V Permit
- 33. The CTG shall be equipped with a continuous monitoring system to measure and record fuel consumption. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 34. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NOx, CO and O2 concentrations. Continuous emissions monitor(s) shall be capable of monitoring emissions during normal operating conditions, and during startups and shutdowns provided the CEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of CEMS cannot be demonstrated during startup conditions, CEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this document. [District Rules 1080 and 4703 and 40 CFR 60.4335(b)(1)] Federally Enforceable Through Title V Permit
- 35. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080 and 40 CFR 60.4345(b)] Federally Enforceable Through Title V Permit
- 36. The NOx, CO and O2 CEMS shall meet the requirements in 40 CFR 75, Appendix A, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.4345(a)] Federally Enforceable Through Title V Permit
- 37. The owner/operator shall perform audits of the CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every QA operating quarter, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next audit. No more than four successive calendar quarters shall elapse after the quarter in which an audit was last performed without a subsequent audit having been conducted. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080 and 4703, 6.2.3, 40 CFR 60.4345(e) and 40 CFR 75, Appendix B] Federally Enforceable Through Title V Permit
- 38. The owner/operator shall perform a relative accuracy test audit (RATA) for the NOx, CO and O2 CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every two QA operating quarters. The RATA frequency may be reduced to at least once every four QA operating quarters if the incentive criteria of 40 CFR 75, Appendix B, Section 2.3.1.2 has been met. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next RATA. No more than eight successive calendar quarters shall elapse after the quarter in which a RATA was last performed without a subsequent RATA having been conducted. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendices A and B. [District Rule 1080, 40 CFR 60.4345(a) and 40 CFR 75, Appendices A & B] Federally Enforceable Through Title V Permit

- 39. For the purposes of performing quarterly audits and RATA on the CEMS, a QA operating quarter shall be defined as a calendar quarter in which there are at least 168 unit operating hours, or, for a common stack or bypass stack, a calendar quarter in which there are at least 168 stack operating hours. An operating hour is defined as a clock hour during which a unit combusts any fuel, either for part of the hour or for the entire hour. [40 CFR 72] Federally Enforceable Through Title V Permit
- 40. Results of the CEM system shall be averaged over a one hour period for NOx emissions and a three hour period for CO emissions using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60.13. [District Rule 4703 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
- 41. Excess NOx emissions shall be defined as any operating hour in which the 1-hour rolling average NOx concentration exceeds an applicable emissions limit. A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both). [40 CFR 60.4350(g) and 40 CFR 60.4380(b)(1)] Federally Enforceable Through Title V Permit
- 42. Results of continuous emissions monitoring shall be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
- 43. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
- 44. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
- 45. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
- 46. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess NOx emissions, nature and the cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 60.4375(a) and 60.4395] Federally Enforceable Through Title V Permit
- 47. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rule 1080] Federally Enforceable Through Title V Permit
- 48. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, and maintenance of any continuous emission monitor.

 [District Rules 1080, 2201 and 4703 and 40 CFR 60.8(d)] Federally Enforceable Through Title V Permit
- 49. The permittee shall maintain the following records: hours of operation, fuel consumption (scf/hr and scf/rolling twelve month period), continuous emission monitor measurements, calculated ammonia slip, and calculated NOx mass emission rates (lb/hr, lb/qtr and lb/twelve month rolling period). [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 50. All records shall be maintained and retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070, 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT: C-7286-4-2 EXPIRATION DATE: 05/31/2017

EQUIPMENT DESCRIPTION:

30 MW NOMINALLY RATED SIMPLE-CYCLE POWER GENERATING SYSTEM #4 CONSISTING OF A 311 MMBTU/HR PRATT & WHITNEY MODEL FT8-3 SWIFTPAC NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR SERVED BY AN INLET AIR FILTRATION AND COOLING SYSTEM, WATER INJECTION, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND A OXIDATION CATALYST POWERING A 60 MW NOMINALLY RATED ELECTRICAL GENERATOR (SHARED WITH C-7286-3)

PERMIT UNIT REQUIREMENTS

- 1. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve this gas turbine engine. Exhaust ducting may be equipped (if required) with a fresh air inlet blower to be used to lower the exhaust temperature prior to inlet of the SCR system catalyst. The permittee shall submit SCR and oxidation catalyst design details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. Permittee shall submit continuous emission monitor design, installation, and operational details to the District at least 30 days prior to commencement of construction. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. The permittee shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits of this permit when no continuous emission monitoring data for NOx is available or when continuous emission monitoring system is not operating properly. [District Rule 4703] Federally Enforceable Through Title V Permit
- 4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
- Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
- 6. Combustion turbine generator (CTG) and electrical generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater, except for up to three minutes in any hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
- 7. This CTG shall be fired exclusively on PUC-regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rule 2201 and 40 CFR 60.4330(a)(2)] Federally Enforceable Through Title V Permit
- 8. Emission rates from this CTG, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 2.8 lb/hr and 2.5 ppmvd @ 15% O2; CO 4.19 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 0.82 lb/hr and 2.0 ppmvd @ 15% O2; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit

Facility Name: STARWOOD POWER-MIDWAY, LLC Location: 43699 PANOCHE RD, FIREBAUGH, CA C-7286-4-2: May 29 2012 9.52AM – FUKUDAD

- 9. Combined emission rates from the CTG's operating under permit units C-7286-3 and C-7286-4, except during startup and shutdown periods, shall not exceed any of the following limits: NOx (as NO2) 5.6 lb/hr and 2.5 ppmvd @ 15% O2; CO 8.38 lb/hr and 6.0 ppmvd @ 15% O2; VOC (as methane) 1.64 lb/hr and 2.0 ppmvd @ 15% O2; PM10 3.70 lb/hr; or SOx (as SO2) 1.78 lb/hr. NOx (as NO2) emission rates are one hour rolling averages. All other emission rates are three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit
- 10. The ammonia (NH3) emissions from this CTG shall not exceed either of the following limits: 4.24 lb/hr or 10 ppmvd @ 15% O2 over a 24 hour rolling average. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 11. During start-up, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 30.0 lb/hr; CO 12.5 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 12. During shutdown, CTG exhaust emission rates shall not exceed any of the following limits: NOx (as NO2) 1.50 lb/hr; CO 21.33 lb/hr; VOC (as methane) 0.83 lb/hr; PM10 1.85 lb/hr; or SOx (as SO2) 0.89 lb/hr, based on a per event average. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 13. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operations. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 14. The duration of each startup or shut down time shall not exceed two hours. Startup and shutdown emissions shall be counted toward all applicable emission limits. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 15. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
- 16. Daily emissions from the CTG shall not exceed any of the following limits: NOx (as NO2) 79.8 lb/day; CO 117.6 lb/day; VOC 19.7 lb/day; PM10 44.4 lb/day; or SOx (as SO2) 21.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. Combined daily emissions from the CTG's operating under permit units C-7286-3 and C-7286-4 shall not exceed any of the following limits: NOx (as NO2) 159.6 lb/day; CO 235.2 lb/day; VOC 39.4 lb/day; PM10 88.8 lb/day; or SOx (as SO2) 42.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 18. Quarterly hours of operation of this CTG shall not exceed any of the following limits: 1st Quarter 800 hours, 2nd Quarter 800 hours, 3rd Quarter 1,400 hours, or 4th Quarter 1,000 hours. [District Rule 2201] Federally Enforceable Through Title V Permit
- 19. Annual emissions from this CTG, calculated on a twelve month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 12,736 lb/year; CO 18,826 lb/year; VOC 3,281 lb/year; PM10 7,400 lb/year; or SOx (as SO2) 3,560 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 20. Combined annual emissions from the CTG's operating under permit units C-7286-3 and C-7286-4, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following limits: NOx (as NO2) 25,742 lb/year; CO 37,652 lb/year; VOC 6,562 lb/year; PM10 14,800 lb/year; or SOx (as SO2) 7,120 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
- 21. The combined annual NOx emissions from the CTG's operating under permits C-7286-1, C-7286-2, C-7286-3 and C-7286-4, calculated on a twelve consecutive month rolling basis, shall not exceed 50,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit

- 22. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. [District Rule 2201] Federally Enforceable Through Title V Permit
- 23. Daily emissions will be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each month in the twelve consecutive month rolling average emissions shall commence at the beginning of the first day of the month. The twelve consecutive month rolling average emissions to determine compliance with annual emissions limitations shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: (ppmvd @ 15% O2) = ((a (b x c/1,000,000)) x (1,000,000 / b)) x d, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) Utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.)

 Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
- 25. Source testing to measure startup and shutdown NOx, CO, and VOC mass emission rates shall be conducted for one SwiftPac unit (two paired turbines operating under units C-7286-1 and C-7286-2 or C-7286-3 and C-7286-4) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR 60, Appendix B. If CEM data is not certifiable to determine compliance with NOx and CO startup emission limits, then source testing to measure startup NOx and CO mass emission rates shall be conducted at least once every 12 months. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 26. Source testing to determine compliance with NOx, CO, VOC and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted at least once every 12 months. The source testing frequency may be reduced to once every 24 months if the actual operation of units C-7286-3 and C-7286-4 combined is less than 877 hours during any 12 consecutive month rolling period. NOx emission concentration at the SCR inlet shall be determined for 90%, and 100% loads during compliance testing by measuring NOx emissions at each load for a minimum of 5 minutes or until NOx concentration has stabilized. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 27. Source testing shall be conducted while units C-7286-3 and C-7286-4 are operating simultaneously. If unit C-7286-3 operates independently from unit C-7286-4 for more than 400 hours during any given calendar year, source testing shall also be conducted while unit C-7286-4 is operating independently. [District Rules 1081, 2201 and 4703 and 40 CFR 60.4400(a)] Federally Enforceable Through Title V Permit
- 28. The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored within 60 days of the end of the commission period and weekly thereafter. If the sulfur content is demonstrated to be less than 1.0 gr/100 scf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume. [40 CFR 60.4360, 60.4365(a) and 60.4370(c)] Federally Enforceable Through Title V Permit
- 29. The following test methods shall be used: NOx EPA Method 7E or 20; CO EPA Method 10 or 10B; VOC EPA Method 18 or 25; PM10 EPA Method 5/202 (front half and back half) or 201 and 202a; ammonia BAAQMD ST-1B; and O2 EPA Method 3, 3A, or 20. EPA approved alternative test methods, as approved by the District, may also be used to address the source testing requirements of this permit. [District Rules 1081 and 4703 and 40 CFR 60.4400(1)(i)] Federally Enforceable Through Title V Permit

- Fuel sulfur content shall be monitored using one of the following methods: ASTM Methods D1072, D3246, D4084, D4468, D4810, D6228, D6667 or Gas Processors Association Standard 2377. [40 CFR 60.4415(a)(1)(i)] Federally Enforceable Through Title V Permit
- 31. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
- 32. Compliance demonstration (source testing) shall be District witnessed, or authorized and samples shall be collected by a California Air Resources Board certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081 and 40 CFR 60.4375(b)] Federally Enforceable Through Title V Permit
- 33. The CTG shall be equipped with a continuous monitoring system to measure and record fuel consumption. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 34. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NOx, CO and O2 concentrations. Continuous emissions monitor(s) shall be capable of monitoring emissions during normal operating conditions, and during startups and shutdowns provided the CEMS passes the relative accuracy requirement for startups and shutdowns specified herein. If relative accuracy of CEMS cannot be demonstrated during startup conditions, CEMS results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits contained in this document. [District Rules 1080 and 4703 and 40 CFR 60.4335(b)(1)] Federally Enforceable Through Title V Permit
- 35. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080 and 40 CFR 60.4345(b)] Federally Enforceable Through Title V Permit
- 36. The NOx, CO and O2 CEMS shall meet the requirements in 40 CFR 75, Appendix A, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.4345(a)] Federally Enforceable Through Title V Permit
- 37. The owner/operator shall perform audits of the CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every QA operating quarter, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next audit. No more than four successive calendar quarters shall elapse after the quarter in which an audit was last performed without a subsequent audit having been conducted. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rules 1080 and 4703, 6.2.3, 40 CFR 60.4345(e) and 40 CFR 75, Appendix B] Federally Enforceable Through Title V Permit
- 38. The owner/operator shall perform a relative accuracy test audit (RATA) for the NOx, CO and O2 CEMS as specified by 40 CFR Part 75, Appendices A and B, at least once every two QA operating quarters. The RATA frequency may be reduced to at least once every four QA operating quarters if the incentive criteria of 40 CFR 75, Appendix B, Section 2.3.1.2 has been met. A calendar quarter that does not qualify as a QA operating quarter shall be excluded in determining the deadline for the next RATA. No more than eight successive calendar quarters shall elapse after the quarter in which a RATA was last performed without a subsequent RATA having been conducted. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendices A and B. [District Rule 1080, 40 CFR 60.4345(a) and 40 CFR 75, Appendices A & B] Federally Enforceable Through Title V Permit

- 39. For the purposes of performing quarterly audits and RATA on the CEMS, a QA operating quarter shall be defined as a calendar quarter in which there are at least 168 unit operating hours, or, for a common stack or bypass stack, a calendar quarter in which there are at least 168 stack operating hours. An operating hour is defined as a clock hour during which a unit combusts any fuel, either for part of the hour or for the entire hour. [40 CFR 72] Federally Enforceable Through Title V Permit
- 40. Results of the CEM system shall be averaged over a one hour period for NOx emissions and a three hour period for CO emissions using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60.13. [District Rule 4703 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
- 41. Excess NOx emissions shall be defined as any operating hour in which the 1-hour rolling average NOx concentration exceeds an applicable emissions limit. A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both). [40 CFR 60.4350(g) and 40 CFR 60.4380(b)(1)] Federally Enforceable Through Title V Permit
- 42. Results of continuous emissions monitoring shall be reduced according to the procedures established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
- 43. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
- 44. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
- 45. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary shall be in the form and the manner prescribed by the APCO. [District Rule 1080] Federally Enforceable Through Title V Permit
- 46. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess NOx emissions, nature and the cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 60.4375(a) and 60.4395] Federally Enforceable Through Title V Permit
- 47. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rule 1080] Federally Enforceable Through Title V Permit
- 48. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, and maintenance of any continuous emission monitor.

 [District Rules 1080, 2201 and 4703 and 40 CFR 60.8(d)] Federally Enforceable Through Title V Permit
- 49. The permittee shall maintain the following records: hours of operation, fuel consumption (scf/hr and scf/rolling twelve month period), continuous emission monitor measurements, calculated ammonia slip, and calculated NOx mass emission rates (lb/hr, lb/qtr and lb/twelve month rolling period). [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
- 50. All records shall be maintained and retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070, 2201 and 4703] Federally Enforceable Through Title V Permit