



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

OCT 05 2011

Ms. Michelle Helmar  
California State Prison - Avenal  
P O BPx 8  
Avenal, CA 93204

**Re: Final - Authority to Construct / COC (Significant Mod)  
District Facility # C-195  
Project # C-1103854**

Dear Ms. Helmar:

The Air Pollution Control Officer has issued Authorities to Construct (C-195-1-7 and '3-7) with Certificates of Conformity to California State Prison - Avenal at 1 Kings Way in Avenal. The proposal is to modify the turbine monitoring requirements in order to allow periodic monitoring of NOx emissions with a portable analyzer.

Enclosed are the Authorities to Construct. The application and proposal were sent to US EPA Region IX on August 31, 2011. No comments were received following the District's preliminary decision on this project.

The notice of final decision for this project will be published approximately three days from the date of this letter.

Prior to operating with modifications authorized by the Authority to Construct, you must submit an application to modify the Title V permit as an administrative amendment in accordance with District Rule 2520, Section 11.5.

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

Sincerely,

David Warner  
Director of Permit Services

Enclosures  
fgd

Seyed Sadredin  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



OCT 05 2011

Gerardo C. Rios, Chief  
Permits Office  
Air Division  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

**Re: Final - Authority to Construct / COC (Significant Mod)  
District Facility # C-195  
Project # C-1103854**

Dear Mr. Rios:

The Air Pollution Control Officer has issued Authorities to Construct (C-195-1-7 and '3-7) with Certificates of Conformity to California State Prison - Avenal at 1 Kings Way in Avenal. The proposal is to modify the turbine monitoring requirements in order to allow periodic monitoring of NOx emissions with a portable analyzer.

Enclosed is a copy of the Authorities to Construct. The application and proposal were sent to US EPA Region IX on August 31, 2011. No comments were received following the District's preliminary decision on this project.

The notice of final decision for this project will be published approximately three days from the date of this letter.

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

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David Warner  
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**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT



**HEALTHY AIR LIVING™**

OCT 05 2011

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

**Re: Final - Authority to Construct / COC (Significant Mod)  
District Facility # C-195  
Project # C-1103854**

Dear Mr. Tollstrup:

The Air Pollution Control Officer has issued Authorities to Construct (C-195-1-7 and '3-7) with Certificates of Conformity to California State Prison - Avenal at 1 Kings Way in Avenal. The proposal is to modify the turbine monitoring requirements in order to allow periodic monitoring of NOx emissions with a portable analyzer.

Enclosed is a copy of the Authorities to Construct. The application and proposal were sent to US EPA Region IX on August 31, 2011. No comments were received following the District's preliminary decision on this project.

The notice of final decision for this project will be published approximately three days from the date of this letter.

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

Sincerely,

David Warner  
Director of Permit Services

Enclosures  
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Executive Director/Air Pollution Control Officer

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**NOTICE OF FINAL DECISION  
FOR THE ISSUANCE OF AUTHORITY TO CONSTRUCT AND  
THE PROPOSED SIGNIFICANT MODIFICATION OF FEDERALLY  
MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue Authorities to Construct to California State Prison - Avenal for prison located at 1 Kings Way in Avenal, California. The proposal is to modify the turbine monitoring requirements in order to allow periodic monitoring of NOx emissions with a portable analyzer.

The District's analysis of the legal and factual basis for this proposed action, project #C-1103854, is available for public inspection at 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.



# AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-195-1-7

**ISSUANCE DATE:** 10/03/2011

**LEGAL OWNER OR OPERATOR:** CALIF STATE PRISON - AVENAL

**MAILING ADDRESS:** PO BOX 8  
AVENAL, CA 93204

**LOCATION:** 1 KINGS WAY  
AVENAL, CA 93204

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 2,600 KW SOLAR CENTAUR MODEL GSC-4500 GAS TURBINE, AVENAL #1, SN DCG0211, WITH UNFIRED ENERGY RECOVERY INC. MODEL 52.5-1816 THERMAL RECOVERY, SN W2272: MODIFY MONITORING PROGRAM TO PERIODIC MONITORING OF NOX EMISSIONS

## CONDITIONS

1. This turbine shall not operate for more than 8,050 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. This turbine shall not operate when the 21 MMBtu/hr backup boiler (C-195-2) and the other turbine (C-195-3) are both operating except for cold starts of less than 1 hour, a shutdown of less than 2 hours, and boiler testing totaling less than 24 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
3. This turbine shall only be fired on PUC-regulated natural gas or on No. 2 fuel oil with a maximum sulfur content of 0.12% by weight as a backup fuel. [40 CFR 60.333, District NSR Rule, District Rule 4201, and District Rule 4801] Federally Enforceable Through Title V Permit
4. Natural gas fuel consumption for the turbine shall not exceed 879,960 scf per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. No. 2 fuel oil with a maximum sulfur content of 0.12% by weight may be used for up to 100 hours per year if the natural gas supply is interrupted. No. 2 fuel oil consumption shall not exceed 8,540 gallons per day. [District NSR Rule, District Rule 4801, and 40 CFR 60.333(b)] Federally Enforceable Through Title V Permit
6. The combined total operating hours of two turbines (C-195-1 and C-195-3) when operating concurrently with two 25.1 MMBtu/hr boilers (C-195-12 and C-195-13) shall not exceed 5,203 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

C-195-1-7, Oct 3 2011 7:59AM - DEMARISF : Joint Inspection NOT Required

7. Daily hours of concurrent operation with the two 25.1 boilers (C-195-12 and C-195-13) shall be maintained. [District Rules 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. When firing on natural gas, the exhaust NO<sub>x</sub> concentrations shall not exceed 35.0 ppmvd @15% O<sub>2</sub> (averaged over a 3-hour period) or 4.27 lb/hr except during the thermal stabilizing period or reduced load period. [District NSR Rule, District Rule 4703, 5.1.2, and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
9. When firing on No. 2 fuel oil, the exhaust NO<sub>x</sub> concentration shall not exceed 54.6 ppmvd @15% O<sub>2</sub> (averaged over a 3-hour period) or 8.81 lb/hr except during the thermal stabilizing period or reduced load period. [District NSR Rule, District Rule 4703, 5.1.2, and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
10. When firing on natural gas, the exhaust CO concentration shall not exceed 130.0 ppmvd @ 15% O<sub>2</sub> or 10.00 lb/hr except during the thermal stabilizing period or reduced load period. [District NSR Rule and District Rule 4703, 5.2] Federally Enforceable Through Title V Permit
11. When firing on No. 2 fuel oil, the exhaust CO concentration shall not exceed 172.3 ppmvd @ 15% O<sub>2</sub> or 16.92 lb/hr except during the thermal stabilizing period or reduced load period. [District NSR Rule and District Rule 4703, 5.2] Federally Enforceable Through Title V Permit
12. Daily emissions shall not exceed any of the following: 122.6 lb-SO<sub>x</sub>/day, 36.0 lb-PM<sub>10</sub>/day, or 120.0 lb-VOC(NMHC)/day. [District NSR Rule and District Rule 4301] Federally Enforceable Through Title V Permit
13. Permittee shall perform a source test to measure NO<sub>x</sub> and CO emissions (ppmvd @ 15% O<sub>2</sub> and lb/hr) at least once every twelve months. [District Rules 1081 and 4703, 6.3.1] Federally Enforceable Through Title V Permit
14. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The following test methods shall be used: NO<sub>x</sub>: EPA Methods 7E or 20 or CARB Method 100; CO: EPA Methods 10 or 10B or CARB Method 100; and Oxygen content of the exhaust gas: EPA Methods 3, 3A, or 20. [40 CFR 60.8(a) and District Rule 4703, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
17. The following test method shall be used for fuel gas sulfur content: ASTM D3246. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rule 4102 and 40 CFR 60.335(b)(10)(ii)] Federally Enforceable Through Title V Permit
18. The following test methods shall be used to determine the sulfur content of the liquid fuel: ASTM D129, D2622, D4294, D1266, D5453 or D1552. [District Rule 4801 and 40 CFR 60.335(b)(10)(i)] Federally Enforceable Through Title V Permit
19. The HHV and LHV of the fuel combusted shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
20. The permittee shall monitor and record the stack concentration of NO<sub>x</sub>, CO, and O<sub>2</sub> at least once every month (in which a source test is not performed) using a portable analyzer that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rule 4703 and 40 CFR 60.334]

CONDITIONS CONTINUE ON NEXT PAGE

21. If the NO<sub>x</sub> and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NO<sub>x</sub> and CO concentrations to the permitted emission limits as soon as possible but no longer than 8 hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 2201 and 4703]
22. All NO<sub>x</sub>, CO, and O<sub>2</sub> emission readings shall be taken with the unit operating at conditions representative of normal operation or under the conditions specified in the Permit to Operate. The NO<sub>x</sub>, CO and O<sub>2</sub> analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Analyzer readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 2201 and 4703]
23. When this unit is modified to comply with the Tier 3 emission limits in Rule 4703, the monitoring program shall be revised as appropriate for the NO<sub>x</sub> controls applied to the Tier 3-compliant unit. [District Rule 4703]
24. Permittee shall record fuel consumption, fuel type, and sulfur content of fuel. Records shall be retained for at least five years and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. The owner or operator shall maintain the gas quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 10 grains/100 scf or less. [District Rule 2520, 9.3.2, District Rule 4301, and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
26. Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the position of the exhaust gas diverter gate, not to exceed one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit
27. Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating temperature range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
28. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
29. Particulate matter emissions shall not exceed 0.1 grains/scf at 12% CO<sub>2</sub>. [District Rule 4301] Federally Enforceable Through Title V Permit
30. The owner or operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods or thermal stabilizing periods, total hours of operation, and the type and quantity of fuel consumed. [District Rule 4703, 6.2.6] Federally Enforceable Through Title V Permit
31. The owner or operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** C-195-3-7

**ISSUANCE DATE:** 10/03/2011

**LEGAL OWNER OR OPERATOR:** CALIF STATE PRISON - AVENAL

**MAILING ADDRESS:** PO BOX 8  
AVENAL, CA 93204

**LOCATION:** 1 KINGS WAY  
AVENAL, CA 93204

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 2,600 KW SOLAR CENTAUR MODEL CSC-4500 GAS TURBINE, AVENAL #2, SN DCG02010, WITH ENERGY RECOVERY INC. MODEL 52.5-1416 THERMAL RECOVERY UNIT, SN W2274: MODIFY MONITORING PROGRAM TO PERIODIC MONITORING OF NOX EMISSIONS

### CONDITIONS

1. This turbine shall not operate for more than 8,050 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
2. This turbine shall not operate when the 21 MMBtu/hr backup boiler (C-195-2) and the other turbine (C-195-1) are both operating except for cold starts of less than 1 hour, a shutdown of less than 2 hours, and boiler testing totaling less than 24 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
3. This turbine shall only be fired on PUC-regulated natural gas or on No. 2 fuel oil with a maximum sulfur content of 0.12% by weight as a backup fuel. [40 CFR 60.333, District NSR Rule, District Rule 4201, and District Rule 4801] Federally Enforceable Through Title V Permit
4. Natural gas fuel consumption for the turbine shall not exceed 879,960 scf per day. [District NSR Rule] Federally Enforceable Through Title V Permit
5. No. 2 fuel oil with a maximum sulfur content of 0.12% by weight may be used for up to 100 hours per year if the natural gas supply is interrupted. No. 2 fuel oil consumption shall not exceed 8,540 gallons per day. [District NSR Rule, District Rule 4801, and 40 CFR 60.333(b)] Federally Enforceable Through Title V Permit
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Seyed Sadredin, Executive Director / APCO

  
DAVID WARNER, Director of Permit Services

C-195-3-7 Oct 3 2011 7:59AM - DEMARISF : Joint Inspection NOT Required



7. Daily hours of concurrent operation with the two 25.1 boilers (C-195-12 and C-195-13) shall be maintained. [District Rules 1070 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. When firing on natural gas, the exhaust NO<sub>x</sub> concentrations shall not exceed 35.0 ppmvd @15% O<sub>2</sub> (averaged over a 3-hour period) or 4.27 lb/hr except during the thermal stabilizing period or reduced load period. [District NSR Rule, District Rule 4703, 5.1.2, and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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