

**CLARK COUNTY**  
**DEPARTMENT OF AIR QUALITY AND**  
**ENVIRONMENTAL MANAGEMENT**  
*500 South Grand Central Parkway, Box 555210, Las Vegas, Nevada 89155*  
**Part 70 Operating Permit**  
**Source: 1513**  
Issued in accordance with the  
Clark County Air Quality Regulations (AQR)

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**ISSUED TO: Nevada Power Company, Chuck Lenzie Generating Station**

**SOURCE LOCATION:**  
13605 Chuck Lenzie Court  
Las Vegas, NV 89165  
T18S, R63E, Section 15  
Hydrographic Basin Number: 216

**COMPANY ADDRESS:**  
6226 West Sahara Avenue, MS#30  
Las Vegas, NV 89146

**NATURE OF BUSINESS:**  
SIC Code 4911: Electric Services  
NAICS: 221112: Fossil Fuel Electric Power Generation

**RESPONSIBLE OFFICIAL:**  
Name: Kevin Geraghty  
Title: Executive, Generation  
Phone: (702) 402-5662  
Fax Number: (702) 402-0835

**Initial Permit Issuance: October 20, 2009    Expiration Date: October 19, 2014**

**ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY AND ENVIRONMENTAL MANAGEMENT**



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Tina Gingras  
Assistant Director, Clark County DAQEM

## EXECUTIVE SUMMARY

Chuck Lenzie Generating Station is an electrical power generating station located at Apex Dry Lake Industrial Park. The legal description of the source location is as follows: Eastern portion of T18S, R63E, Section 15 in Apex Valley, County of Clark, State of Nevada. Chuck Lenzie Generating Station is situated in hydrographic area 216 (Garnet Valley). Garnet Valley is designated as unclassified nonattainment area for 8-hour ozone (regulated through NO<sub>x</sub> and VOC) and is attainment area for PM<sub>10</sub>, CO, and SO<sub>2</sub>. Chuck Lenzie Generating Station is a major source for PM<sub>10</sub>, NO<sub>x</sub>, CO, VOC, and TCS (NH<sub>3</sub>) and is minor source for SO<sub>x</sub> and HAP. The Chuck Lenzie Generating Station operates four GE frame 7 gas-fired CTGs, four duct-fired HRSGs, two steam turbine generators, two auxiliary 44 MMBtu/hr boilers, two diesel emergency generators, two diesel fire pumps, and associated ancillary equipment. This Part 70 Operating Permit is issued based on the Title V application submitted on July 24, 2006 and the Title V Revision application submitted on March 14, 2007.

The following table summarizes the source potential to emit for each regulated air pollutant:

### Source-Wide PTE (tons per year)<sup>1</sup>

| Pollutants              | PM <sub>10</sub> | NO <sub>x</sub> | CO       | SO <sub>x</sub> | VOC    | HAP             | NH <sub>3</sub> |
|-------------------------|------------------|-----------------|----------|-----------------|--------|-----------------|-----------------|
| PTE Totals              | 497.81           | 545.35          | 1,439.42 | 86.55           | 203.51 | 23.46           | 346.00          |
| Major Source Thresholds | 100              | 100             | 100      | 100             | 100    | 25 <sup>2</sup> | 1.0             |

<sup>1</sup> Not a source-wide emission limit; values are used for determining the major source status.

<sup>2</sup> Ten tons for any individual HAP or 25 tons for combination of all HAPs.

Pursuant to AQR 19.4.2, all terms and conditions in Sections I through VI and attachments 1 and 2 in this permit are federally enforceable unless explicitly denoted otherwise.

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**I. ACRONYMS**

**Table I-1: Acronyms**

| Acronym          | Term  |
|------------------|---|
| AQR              | Clark County Air Quality Regulations                              |
| ATC              | Authority to Construct  |
| CAAA             | Clean Air Act, as amended   |
| CATEF            | California Air Toxics Emission Factors                            |
| CEMS             | Continuous Emissions Monitoring System                            |
| CFC              | Chlorofluorocarbon  |
| CFR              | United States Code of Federal Regulations                         |
| CO               | Carbon Monoxide   |
| CTG              | Combustion Turbine-Generator                                      |
| DAQEM            | Clark County Department of Air Quality & Environmental Management |
| EPA              | United States Environmental Protection Agency                     |
| EU               | Emission Unit   |
| HAP              | Hazardous Air Pollutant   |
| HCFC             | Hydrochlorofluorocarbon   |
| HHV              | Higher Heating Value  |
| HP               | Horse Power   |
| kW               | kilowatt  |
| LHV              | Lower Heating Value   |
| MMBtu            | Millions of British Thermal Units                                 |
| M/N              | Model Number  |
| MW               | Megawatt  |
| NAICS            | North American Industry Classification System                     |
| NO <sub>x</sub>  | Nitrogen Oxides   |
| NRS              | Nevada Revised Statutes   |
| OP               | Operating Permit  |
| PM <sub>10</sub> | Particulate Matter less than 10 microns                           |
| ppm              | Parts per Million   |
| ppmvd            | Parts per Million, Volumetric Dry                                 |
| PTE              | Potential to Emit   |
| QA/AC            | Quality Assurance/Quality Control                                 |
| RATA             | Relative Accuracy Test Audits                                     |
| RMP              | Risk Management Plan  |
| SCC              | Source Classification Codes                                       |
| scf              | Standard Cubic Feet   |
| SIC              | Standard Industrial Classification                                |
| SIP              | State Implementation Plan   |
| S/N              | Serial Number   |
| SO <sub>x</sub>  | Sulfur Oxides   |
| ULN              | Ultra Low-NO <sub>x</sub>   |
| VOC              | Volatile Organic Compound   |

## **II. GENERAL CONDITIONS**

### **A. GENERAL REQUIREMENTS**

1. The Permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Air Act (Act) and is grounds for enforcement action; for permit termination, revocation and reissuance or modification; or for denial of a permit renewal application. *[AQR 19.4.1.6.a]*
2. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid. *[AQR 19.4.1.5]*
3. The Permittee shall pay all permit fees pursuant to AQR Section 18. Failure to pay Part 70 permit fees may result in citations or suspensions or revocation of the Part 70 Permit. *[AQR 19.4.1.7]*
4. The permit does not convey any property rights of any sort, or any exclusive privilege. *[AQR 19.4.1.6.d]*
5. The Permittee shall not hinder, obstruct, delay, resist, interfere with, or attempt to interfere with the Control Officer, or any individual to whom authority has been duly delegated for the performance of any duty by the AQR. *[AQR 5.1]*
6. The Permittee owning, operating, or in control of any equipment or property who shall cause, permit, or participate in any violation of the AQR shall be individually and collectively liable to any penalty or punishment imposed by and under the AQR. *[AQR 8.1]*
7. The Permittee shall continue to comply with applicable requirements for which the Permittee is in compliance. *[AQR 19.3.3.8.b]*
8. Any Permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. *[AQR 19.3.2]*
9. The Permittee may request confidential treatment of any records in accordance with AQR Section 19. Emission data, standards or limitations [all terms as defined in 40 CFR 2.301(a)] or other information as specified in 40 CFR 2.301 shall not be considered eligible for confidential treatment. The Administrator and the Control Officer shall each retain the authority to determine whether information is eligible for confidential treatment on a case-by-case basis. *[AQR 19.3.1.3 and 40 CFR 2.301]*

### **B. MODIFICATION, REVISION, RENEWAL REQUIREMENTS**

1. The Permittee shall not make a modification, as defined in AQR Section 0, to the existing source prior to receiving an ATC from the Control Officer. *[AQR 12.1.1.1]*
2. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the Permittee for the permit modification, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[AQR 19.4.1.6.c]*
3. Any request for a permit revision must comply with the requirements of AQR Section 19. *[AQR 19.5.5.1]*
4. The Permittee shall not build, erect, install or use any article, machine, equipment or process, the use of which conceals an emission, which would otherwise constitute a violation of an applicable requirement. *[AQR 80.1 and 40 CFR 60.12]*
5. No permit revisions shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are

provided for in the permit, provided the Permittee conforms to the applicable requirements of AQR Sections 12 and 58. [AQR 19.4.1.11]

6. For purposes of permit renewal, the Permittee shall submit a timely and complete application. A timely application is one submitted between six (6) months and 18 months prior to the date of permit expiration. [AQR 19.3.1.1.c]
7. Permit expiration terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted consistent with AQR Subsections 19.3.1.1.c and 19.5.2 in which case the permit shall not expire and all terms and conditions of the permit shall remain in effect until the renewal permit has been issued or denied. [AQR 19.5.3.2]

### **C. REPORTING/NOTIFICATIONS/PROVIDING INFORMATION REQUIREMENTS**

1. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer 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 Control Officer 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 the Control Officer along with a claim of confidentiality. [AQR 19.4.1.6.e]
2. The Permittee shall allow the Control Officer or an authorized representative, upon presentation of credentials:
  - a. entry upon the Permittee's premises where the source is located, or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
  - b. access to inspect and copy, at reasonable times, any records that must be kept under conditions of the permit;
  - c. access to inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. access to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [AQR 4.3 and 19.4.3.2]
3. Upon request of the Control Officer, the Permittee shall provide such information or analyses as will disclose the nature, extent, quantity or degree of air contaminants which are or may be discharged by such source, and type or nature of control equipment in use, and the Control Officer may require such disclosures be certified by a professional engineer registered in the state. In addition to such report, the Control Officer may designate an authorized agent to make an independent study and report as to the nature, extent, quantity or degree of any air contaminants which are or may be discharged from source. An authorized agent so designated is authorized to inspect any article, machine, equipment, or other contrivance necessary to make the inspection and report. [AQR 4.4]

### **D. COMPLIANCE REQUIREMENTS**

1. The Permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit. [AQR 19.4.1.6.b]

2. Any person who violates any provision of this operating permit, including, but not limited to, any application requirement; any permit condition; any fee or filing requirement; any duty to allow or carry out inspection, entry or monitoring activities or any requirements by DAQEM is guilty of a civil offense and shall pay civil penalty levied by the Air Pollution Control Hearing Board/Hearing Officer of not more than \$10,000. Each day of violation constitutes a separate offense. *[AQR 9.1]*
3. Any person aggrieved by an order issued pursuant to AQR 9.1 is entitled to review as provided in Chapter 233B of NRS. *[AQR 9.12]*
4. The Permittee of any stationary source or emission unit that fails to demonstrate compliance with the emissions standards or limitations shall submit a compliance plan to the Control Officer pursuant to AQR Section 10. *[AQR 10.1]*
5. The Permittee shall comply with the requirements of 40 CFR 61, Subpart M, of the National Emission Standard for Asbestos for all demolition and renovation projects. *[AQR 13.1.7]*
6. Requirements for compliance certification with terms and conditions contained in the operating permit, including emission limitations, standards, or work practices, are as follows: *[AQR 19.4.3.5]*
  - a. the Permittee shall submit compliance certifications annually in writing to the Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) and the Administrator at USEPA Region IX (Director, Air and Toxics Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for the previous calendar year will be due on January 30 of each year;
  - b. compliance shall be determined in accordance with the requirements detailed in AQR 19.4.1.3, record of periodic monitoring, or any credible evidence; and
  - c. the compliance certification shall include:
    - i. identification of each term or condition of the permit that is the basis of the certification;
    - ii. the Permittee's compliance status and whether compliance was continuous or intermittent;
    - iii. methods used in determining the compliance status of the source currently and over the reporting period consistent with Subsection 19.4.1.3; and
    - iv. other specific information required by the Control Officer to determine the compliance status of the source.
7. The Permittee shall submit annual emissions inventory reports based on the following: *[AQR 18.6.1]*
  - a. The annual emissions inventory shall be received by DAQEM no later than March 31 after the reporting year.
  - b. The report shall include the emission factors and calculations used to determine the emissions from each permitted emission unit, even when an emission unit is not operated.
8. The Permittee shall report to the Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) any upset, breakdown, malfunction, emergency or deviation which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit. The report shall be in two parts as specified below *[AQR 25.2]*:
  - a. within one (1) hour of the onset of the event, the report shall be communicated by phone (702) 455-5942, or by fax (702) 383-9994.
  - b. as soon as practicable but not exceeding ten (10) calendar days from the onset of the event, the detailed written report shall be submitted. Such reports shall include the probable cause of the excess emissions, emission calculations and any corrective actions taken.

9. The Permittee shall report to the Control Officer deviations that do not result in excess emission, with the quarterly reports. Such reports shall include the probable cause of deviations and any corrective actions or preventative measures taken. [AQR 19.4.1.3]
10. The Permittee shall include a certification of truth, accuracy, and completeness by a responsible official when submitting any application form, report, or compliance certification pursuant to this operating permit. This certification and any other certification required shall state, "Based on the information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete." This statement shall be followed by the signature and printed name of the responsible official certifying compliance and the date of signature. [AQR 19.3.4]

**E. PERFORMANCE TESTING REQUIREMENTS**

1. Upon request of the Control Officer, the Permittee shall test or have tests performed to determine the emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of that allowed by the DAQEM regulations is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. The Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) shall be given a copy of the test results in writing and signed by the person responsible for the tests. [AQR 4.5]
2. Upon request of the Control Officer, the Permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. [AQR 4.6]
3. The Permittee shall submit for approval a performance testing protocol which contains testing, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer (500 Grand Central Parkway, Box 555210, Las Vegas, NV 89155) not less than 45 nor more than 90 days prior to the anticipated date of the performance test. [AQR 14.10]
4. The Permittee shall submit to EPA for approval any alternative test methods that are not already approved by EPA. [AQR 14.1 and 40 CFR 60.8(b)]
5. The Permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days from the end of the performance test. [AQR 14.12]
6. Additional performance testing may be required by the Control Officer [AQR 4.5]

**III. EMISSION UNITS AND APPLICABLE REQUIREMENTS**

**A. Emission Units**

The stationary source covered by this Part 70 OP is defined to consist of the emission units and associated appurtenances summarized in Table III-A-1. *[NSR ATC Modification 1, Revision 4, Section IV-A (05/13/09)]*

**Table III-A-1: List of Emission Units**

| EU   | Description   |
|------|---|
| A01  | Unit #1, GE Frame 7 CTG electric turbine generator, S/N: 297756; natural gas; 8,760 hours per year; Nominal rating:168 MW (292 MW with supplemental duct-firing); MEQ = 292 |
| A02  | Duct-fired HRSG for Unit #1, S/N: 102105; 8,760 hours per year; 2,298 MMBtu/hr  |
| A03  | Unit #2, GE Frame 7 CTG electric turbine generator, S/N: 297757; natural gas; 8,760 hours per year; Nominal rating:168 MW (292 MW with supplemental duct-firing); MEQ = 292 |
| A04  | Duct-fired HRSG for Unit #2, S/N: 102106; 8,760 hours per year; 2,298 MMBtu/hr  |
| A05  | Unit #3, GE Frame 7 CTG electric turbine generator, S/N: 297758; natural gas; 8,760 hours per year; Nominal rating:168 MW (292 MW with supplemental duct-firing); MEQ = 292 |
| A06  | Duct-fired HRSG for Unit #3, S/N: 102107; 8,760 hours per year; 2,298 MMBtu/hr  |
| A07  | Unit #4, GE Frame 7 CTG electric turbine generator, S/N: 297759; natural gas; 8,760 hours per year; Nominal rating:168 MW (292 MW with supplemental duct-firing); MEQ = 292 |
| A08  | Duct-fired HRSG for Unit #4, S/N: 102108; 8,760 hours per year; 2,298 MMBtu/hr  |
| A09  | Auxiliary boiler, M/N: CB1700750200, S/N: OL101697; 6,000 hours per year; 44.1 MMBtu/hr   |
| A10  | Auxiliary boiler, M/N: CB1700750200, S/N: OL101698; 6,000 hours per year; 44.1 MMBtu/hr   |
| A11  | Ammonia storage tank, M/N: none, S/N: DKT02-1210; sealed system   |
| A11a | Ammonia storage tank, M/N: none, S/N: DKT02-1211; sealed system   |
| A12  | Emergency generator, Caterpillar, M/N: 3412, S/N: 3FZ03533; diesel; 63 hours per year; 600 kW   |
| A13  | Emergency generator, Caterpillar, M/N: 3412, S/N: 3FZ03528; diesel; 63 hours per year; 600 kW   |
| A14  | Diesel fire pump, M/N: none, S/N: 101120-003-01-01 FTA100-EL12N-A-AD-AM-AN-EE-J-T-X; 100 hours per year; 275 hp   |
| A15  | Diesel fire pump, M/N: none, S/N: none; 150 hours per year; 600 kW  |
| A16  | 9.8 MMBtu/hr gas line preheater, M/N: none, S/N: EL2F38803-01; 8,760 hours per year   |

**Table III-A-2: List of Categorically Exempt Emission Units**

|  |
|--|
| Two (2) 350-gallon diesel storage tanks for diesel fire pumps    |
| Two (2) 800-gallon diesel storage tanks for emergency generators |
| Numerous lube oil sumps  |

**B. Emission Limitations and Standards**

**1. Emission Limits**

- a. Neither the actual nor allowable emissions from each emission unit shall exceed the calculated PTE listed in Tables III-B-1 through III-B-4, inclusive. Pound-per-hour limits in Table III-B-2 and ppm limits in Table III-B-4 are normal operation (exclude startup and shutdown) limits only. Pound-per-hour limits in Table III-B-2 meet BACT pursuant AQR Sections 12 and 55. Ton-per-year emission limits of each emission unit include startup and shutdown emissions. *[NSR ATC Modification 1, Revision 4, Condition IV-B-1(a) (05/13/09)]*

**Table III-B-1: Emission Unit PTE, Including Startup and Shutdowns (tons per rolling 12-months)**

| EU                   | PM <sub>10</sub> | NO <sub>x</sub> | CO     | SO <sub>x</sub> | VOC   | NH <sub>3</sub> |
|----------------------|------------------|-----------------|--------|-----------------|-------|-----------------|
| A01/A02 <sup>1</sup> | 123.73           | 126.80          | 349.25 | 20.93           | 49.45 | 86.50           |
| A03/A04 <sup>1</sup> | 123.73           | 126.80          | 349.25 | 20.93           | 49.45 | 86.50           |
| A05/A06 <sup>1</sup> | 123.73           | 126.80          | 349.25 | 20.93           | 49.45 | 86.50           |
| A07/A08 <sup>1</sup> | 123.73           | 126.80          | 349.25 | 20.93           | 49.45 | 86.50           |
| A09 <sup>2</sup>     | 1.20             | 15.60           | 19.20  | 1.20            | 2.40  | 0.00            |
| A10 <sup>2</sup>     | 1.20             | 15.60           | 19.20  | 1.20            | 2.40  | 0.00            |
| A11                  | 0.00             | 0.00            | 0.00   | 0.00            | 0.00  | 0.00            |
| A11a                 | 0.00             | 0.00            | 0.00   | 0.00            | 0.00  | 0.00            |
| A12 <sup>3,4</sup>   | 0.02             | 0.46            | 0.13   | 0.01            | 0.02  | 0.00            |
| A13 <sup>3,4</sup>   | 0.02             | 0.46            | 0.13   | 0.01            | 0.02  | 0.00            |
| A14 <sup>3,5</sup>   | 0.03             | 0.43            | 0.09   | 0.01            | 0.04  | 0.00            |
| A15 <sup>3,6</sup>   | 0.03             | 0.46            | 0.57   | 0.01            | 0.05  | 0.00            |
| A16                  | 0.39             | 5.14            | 3.10   | 0.39            | 0.78  | 0.00            |

<sup>1</sup> Based on 0.75 grains sulfur per 100 scf of natural gas.

<sup>2</sup> Maximum operation based upon 6,000 hours per year.

<sup>3</sup> Based on 0.05 weight percent sulfur in the diesel fuel.

<sup>4</sup> Maximum operation based upon 63 hours per year.

<sup>5</sup> Maximum operation based upon 100 hours per year.

<sup>6</sup> Maximum operation based upon 150 hours per year.

**Table III-B-2: Emission Unit PTE, Excluding Startup and Shutdowns (pounds per hour)<sup>1</sup>**

| EU                   | PM <sub>10</sub> | NO <sub>x</sub> | CO    | SO <sub>x</sub> | VOC   | NH <sub>3</sub> |
|----------------------|------------------|-----------------|-------|-----------------|-------|-----------------|
| A01/A02 <sup>2</sup> | 28.25            | 28.95           | 79.74 | 4.78            | 11.29 | 19.75           |
| A03/A04 <sup>2</sup> | 28.25            | 28.95           | 79.74 | 4.78            | 11.29 | 19.75           |
| A05/A06 <sup>2</sup> | 28.25            | 28.95           | 79.74 | 4.78            | 11.29 | 19.75           |
| A07/A08 <sup>2</sup> | 28.25            | 28.95           | 79.74 | 4.78            | 11.29 | 19.75           |
| A09                  | N/A              | 5.20            | 6.40  | N/A             | N/A   | N/A             |
| A10                  | N/A              | 5.20            | 6.40  | N/A             | N/A   | N/A             |
| A16                  | N/A              | 1.17            | 0.71  | N/A             | N/A   | N/A             |

<sup>1</sup> Based on 0.75 grains sulfur per 100 standard cubic feet of natural gas.

<sup>2</sup> Pound-per-hour limitations do not apply to any clock hour that contains at least one (1) minute of startup or shutdown event.

**Table III-B-3: Source HAP PTE**

| Pollutant    | CATEF (lb/MMcf) <sup>1</sup> | All Turbines (lb/yr) | Total Emissions (ton/yr) |
|--------------|------------------------------|----------------------|--------------------------|
| Acetaldehyde | 6.86E-02                     | 4,682.96             | 2.34                     |

| Pollutant                    | CATEF (lb/MMcf) <sup>1</sup> | All Turbines (lb/yr) | Total Emissions (ton/yr) |
|------------------------------|------------------------------|----------------------|--------------------------|
| Acrolein                     | 2.37E-02                     | 1,617.87             | 0.81                     |
| Benzene                      | 1.36E-02                     | 928.40               | 0.46                     |
| 1,3-Butadiene                | 1.27E-04                     | 8.67                 | 0.01                     |
| Ethylbenzene                 | 1.79E-02                     | 1,221.94             | 0.61                     |
| Formaldehyde                 | 1.11E-01                     | 7,546.12             | 3.77                     |
| Hexane                       | 2.59E-01                     | 17,680.56            | 8.84                     |
| Naphthalene                  | 1.66E-03                     | 113.32               | 0.06                     |
| PAHs <sup>2</sup>            | 2.32E-03                     | 45.05                | 0.02                     |
| Propylene Oxide              | 4.78E-02                     | 3,263.05             | 1.63                     |
| Toluene                      | 7.10E-02                     | 4,846.79             | 2.42                     |
| Xylenes                      | 2.61E-02                     | 1,781.71             | 0.89                     |
| Total HAPs-Auxiliary Boilers |                              | 3,200.00             | 1.60                     |

<sup>1</sup> Emission factors from the CATEF, Version 1.2.

<sup>2</sup> Emission factor calculated from CATEF by summing all PAH emission factors. Turbine emissions for PAHs do not include naphthalene. Naphthalene emissions are calculated separately.

**Table III-B-4: Enforceable Emission Limitations Excluding Startup and Shutdown (ppmvd)<sup>1</sup>**

| EU               | Description                                 | NO <sub>x</sub> | CO  | VOC | NH <sub>3</sub> |
|------------------|---|-----------------|-----|-----|-----------------|
| A01 <sup>2</sup> | Turbine Unit #1 with or without duct-firing | 3.0             | 10  | 7.0 | 10              |
| A03 <sup>2</sup> | Turbine Unit #2 with or without duct-firing | 3.0             | 10  | 7.0 | 10              |
| A05 <sup>2</sup> | Turbine Unit #3 with or without duct-firing | 3.0             | 10  | 7.0 | 10              |
| A07 <sup>2</sup> | Turbine Unit #4 with or without duct-firing | 3.0             | 10  | 7.0 | 10              |
| A09 <sup>3</sup> | Auxiliary 44.1 MMBtu/hr boiler              | 30              | 100 | N/A | N/A             |
| A10 <sup>3</sup> | Auxiliary 44.1 MMBtu/hr boiler;             | 30              | 100 | N/A | N/A             |

<sup>1</sup> Emission limits do not apply to any clock hour that contains at least one minute of a startup or shutdown event.

<sup>2</sup> Limits based on a 3-hour averaging period @ 15% O<sub>2</sub>.

<sup>3</sup> Limits based on a 1-hour averaging period @ 3% O<sub>2</sub>.

- b. The Permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[NSR ATC Modification 1, Revision 4, Condition IV-B-1(b) (05/13/09)]*

**2. Production Limits**

- a. The Permittee shall limit the total annual startup and shutdown hours per turbine to 876 hours annually. Startup/shutdown emissions must be reported as recorded by CEMS. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(a) (05/13/09)]*
- b. Startup events shall not exceed 120 minutes for a hot start, which occurs when the turbine has been out of Mode 6 operation for less than eight (8) hours; 180 minutes for a warm start, which occurs when the turbine has been out of Mode 6 operation between eight (8) and 72 hours; and 300 minutes for a cold start, which occurs when a turbine has been out of Mode 6 operation more than 72 hours. Startup is defined as the time immediately following firing until Mode 6 operations are reached or the turbine is shut down, whichever comes first. Mode 6 firing configuration is considered normal operation for GE Frame 7FA turbines. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(b) (05/13/09)]*

- c. A shutdown is defined as the one (1) hour period immediately preceding the cessation of firing of the gas turbine and shall not exceed 60 minutes. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(c) (05/13/09)]*
- d. The Permittee shall limit operation of each turbine/duct burner combination to 3,205 MMBtu/hr heat input on a LHV. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(d) (05/13/09)]*
- e. The Permittee shall limit natural gas fuel flow rate for the combined four (4) turbine units and associated duct burners to 421,336 pounds per hour. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(e) (05/13/09)]*
- f. The Permittee shall limit the maximum plant output derived from fossil fuel combustion to 1,252,080 kW. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(f) (05/13/09)]*
- g. The Permittee shall limit operation of each 44.1 MMBtu/hr boiler (EUs: A09 and A10) to 6,000 hours per rolling 12-months and shall burn only natural gas. At no time shall emissions exceed the limits listed in Table III-B-1 and Table III-B-2. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(g) (05/13/09)]*
- h. The Permittee shall limit operation of each emergency diesel generator (EUs: A12 and A13) to 63 hours per rolling 12-months for testing and maintenance purposes only. The emergency generators shall burn only low sulfur (less than 0.05 percent) diesel fuel. This limit does not apply during emergencies. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(h) (05/13/09)]*
- i. The Permittee shall limit operation of the diesel fire pump (EU: A14) to 100 hours per rolling 12-months for testing and maintenance purposes only. Emergency use is excluded from operational or emission limit constraints. The diesel fire pumps shall burn only low sulfur (less than 0.05 percent) diesel fuel. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(i) (05/13/09)]*
- j. The Permittee shall limit operation of the diesel fire pump (EU: A15) to 150 hours per year for testing and maintenance purposes only. Emergency use is excluded from operational or emission limit constraints. The diesel fire pumps shall burn only low sulfur (less than 0.05 percent) diesel fuel. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(j) (05/13/09)]*
- k. The 9.8 MMBtu/hr gas line heater (EU: A16) shall combust only natural gas. *[NSR ATC Modification 1, Revision 4, Condition IV-B-2(k) (05/13/09)]*

### **3. Emission Controls**

- a. The Permittee shall, under all conditions, operate the source in a manner consistent with good air pollution control practice for minimizing emissions as required by 40 CFR 60.11. *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(a) (05/13/09)]*
- b. Dry low-NO<sub>x</sub> burners, SCR, and oxidation catalysts shall be installed on each of the Turbine Units #1 through #4 (EUs: A01 through A08). *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(b) (05/13/09)]*
- c. SCR shall be maintained and operated on all turbine/duct burner combinations (EUs: A01 through A08) in accordance with manufacturer's specifications. SCR shall be operated at all times the associated turbine unit is operating, excluding periods of startup and shutdown. *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(c) (05/13/09)]*
- d. SCR shall be operated such that neither NO<sub>x</sub> nor NH<sub>3</sub> emissions exceed the limitations listed in Table III-B-4, excluding periods of startup and shutdown as defined. *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(d) (05/13/09)]*

- e. Oxidation catalysts shall be installed and operated on each of Turbine Units #1 through #4 (EUs: A01 through A08) and shall be maintained and operated on all 4 turbine units in accordance with manufacturer's specifications. The catalysts shall be operated at all times the associated turbine units are operating, excluding periods of startup and shutdown. *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(e) (05/13/09)]*
- f. The Permittee shall use only pipeline quality natural gas fuel (maximum sulfur content of 0.5 gr/100 scf) in Turbine Units #1 through #4 (EUs: A01 through A08) to demonstrate initial and continued compliance with SO<sub>x</sub> limitations specified in Section III-B. *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(g) (05/13/09)]*
- g. The determination of the heating value and consumption rate for natural gas for all turbine units shall be based on conditions of 1.0 atmosphere pressure (29.92 inches mercury) and 68 °F (EPA Method 19, 40 CFR 60 Subpart GG). *[NSR ATC Modification 1, Revision 4, Condition IV-B-3(h) (05/13/09)]*

### **C. Monitoring**

#### **1. Continuous Emission Monitoring:**

- a. To demonstrate continuous, direct compliance with operational limitations and the hourly and annual emission limitations for NO<sub>x</sub>, CO, and NH<sub>3</sub> specified in Section III-B of this permit, the Permittee shall install CEMS on Turbine Units #1 through #4 (EUs: A01 through A08, which shall monitor and record the following parameters for each individual CTG: *[AQR 19.4.1.3(a) and 40 CFR 75, Subpart F]*
  - i. hours of operation for startup, shutdown and normal operation separately;
  - ii. electric load;
  - iii. fuel consumption and type;
  - iv. exhaust gas flow rate (by direct or indirect methods);
  - v. exhaust gas concentrations of NO<sub>x</sub>, CO, and O<sub>2</sub>;
  - vi. 3-hour rolling average concentrations of NO<sub>x</sub>, CO, and NH<sub>3</sub> and the mass flow rate of NO<sub>x</sub> and CO; and
  - vii. hourly and 12-month rolling accumulated mass emissions of NO<sub>x</sub>, CO and NH<sub>3</sub>.
- b. If the Permittee elects to monitor NH<sub>3</sub> with a DAQEM approved PEMS, recording for NH<sub>3</sub> concentrations and mass emission as described in Conditions III-C-1-a may be omitted. *[AQR 19.4.1.3(a)]*
- c. The Permittee shall install, certify, operate, and maintain CEMS on Turbine Units #1 through #4 (EUs: A01 through A08) in accordance with the requirements of 40 CFR 60 and 40 CFR 75, as applicable. *[AQR 19.4.1.3(a)]*
- d. CEMS shall be initially certified and tested in accordance with 40 CFR 75, Appendix A: CEMS Specifications and Test Procedures. This requirement has been met. *[AQR 19.4.1.3(a)]*
- e. CEMS certification procedures shall be met as required in 40 CFR 75. *[AQR 19.4.1.3(a)]*
- f. CEMS QA/QC procedures as found in 40 CFR 60 Appendices B and F and 40 CFR 75 Subparts F and G and Appendix B shall apply. *[AQR 19.4.1.3(a)]*
- g. Any exceedance of the NO<sub>x</sub> or CO emission limitations expressed in Section III-B as determined by the CEMS shall be considered a violation of the emission limit imposed and may result in enforcement action. *[AQR 19.4.1.3(a)]*



- observation. If the sum of the occurrence of visible emissions is greater than five (5) percent of the observation period (*i.e.*, 90 seconds per 30 minute period) the Permittee shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than five (5) percent during a 30 minute observation (*i.e.*, 90 seconds) or conduct a new EPA Method 9 performance test using the procedures in Condition III-C-2-a within 30 calendar days according to the requirements in 40 CFR 60.50Da(b)(3).
- ii. If no visible emissions are observed for 30 operating days during which an opacity standard is applicable, observations can be reduced to once every seven (7) operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.
  - d. If the maximum 6-minute opacity is less than ten (10) percent during the most recent EPA Method 9 performance test, the Permittee may, as an alternative to performing subsequent EPA Method 9 performance tests, elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the Administrator. The observations shall be similar, but not necessarily identical, to the requirements in Condition III-C-2-c.
3. The Permittee shall use the applicable procedures specified in 40 CFR 75 Appendix D for estimating hourly SO<sub>2</sub> emissions from Turbine Units #1 through #4 (EUs: A01 through A08). *[AQR 19.4.1.3(a) and 40 CFR 75.11(d)(2)]*
  4. This source is subject to AQR Section 49. It is the Permittee's responsibility to know and follow all requirements within these regulations. General testing and monitoring requirements including: *[AQR 19.4.1.3(a) and 49.5]*
    - a. The Permittee shall perform a burner efficiency test on the auxiliary boilers (EUs: A09 and A10) two (2) times each year in accordance with AQR Subsection 49.5.1. The Permittee shall conduct the tests at least five (5) months but no more than seven (7) months apart during each calendar year. Alternatively, if an auxiliary boiler operates less than 50 hours in a calendar year, the Permittee may perform a burner efficiency test only once during that calendar year;
    - b. Burner efficiency tests shall be conducted in accordance with the manufacturer's recommendations and specifications for good combustion practices. If the manufacturer's recommendations and specifications are unavailable, the Permittee may use an alternative method to perform the boiler efficiency test upon prior approval from the Control Officer; and
    - c. A performance test conducted in accordance with Subsection 49.4 may replace a required burner efficiency test.
  5. The Permittee shall perform at least one visual emissions check each calendar quarter. The quarterly visual checks shall include the diesel-fired emergency generators and fire pump (EUs: A12-A15) while operating, not necessarily simultaneously, to demonstrate compliance with the opacity limit. If any of the diesel-fired emergency generators or fire pump does not operate during the calendar quarter, then no observation of that unit shall be required. If visible emissions are observed, then corrective actions shall be taken to minimize the emissions and, if practicable, the opacity of emissions shall be visually determined in accordance with 40 CFR 60 Appendix A: Reference Method 9. *[AQR 19.4.1.3(a) and 40 CFR 70.6]*

**D. Testing**

1. To demonstrate initial compliance with the emission limitations specified in Section III, the Permittee shall conduct a performance test on Turbine Units #1 through #4 (EUs: A01 through A08). Performance testing on each turbine unit and associated duct burner (EUs: A01 through A08) for NO<sub>x</sub>, CO, and VOC shall be repeated every two years. [AQR 19.4.3.1]
2. Performance testing shall conform to all requirements of 40 CFR 60 Subparts A, Da, GG, 40 CFR 72, DAQEM's Guideline on Performance Testing and this Part 70 permit. Performance testing shall be the initial instrument for determining compliance with emission limitations set forth in Section III-B of this permit. [AQR 14.1.56 and 19.4.3.1 and 40 CFR 60.335]
3. Table III-D-1 summarizes performance test methods for all turbines and associated duct burners. [AQR 19.4.3.1]

**Table III-D-1: Performance Testing Protocol Requirements for Turbines/Duct Burners**

| Test Point                   | Pollutant       | Method (40 CFR 60, Appendix A) |
|------------------------------|-----------------|--------------------------------|
| Turbine Exhaust Outlet Stack | VOC             | EPA Method 18 or Method 25a    |
| Turbine Exhaust Outlet Stack | NO <sub>x</sub> | EPA Method 7E and Method 20    |
| Turbine Exhaust Outlet Stack | CO              | EPA Method 10 analyzer         |
| Stack Gas Parameters         | ---             | EPA Methods 1, 2, 3, and 4     |

4. The Permittee shall conduct periodic performance testing on the auxiliary boilers (EUs: A09 and A10) at least once during every five (5) year period beginning from the date of the initial performance test and at least once at five (5) year intervals. [AQR 49.4.3.1 and 19.4.3.1]
5. Performance testing for the auxiliary boilers (EUs: A09 and A10) shall conform to the applicable requirements of this ATC and AQR Section 49.
6. Table III-D-2 summarizes performance test methods for the auxiliary boilers. [AQR 19.4.3.1]

**Table III-D-2: Performance Testing Protocol Requirements for Auxiliary Boilers**

| Test Point                  | Pollutant       | Method (40 CFR 60, Appendix A) |
|-----------------------------|-----------------|--------------------------------|
| Boiler Exhaust Outlet Stack | NO <sub>x</sub> | EPA Method 7E                  |
| Boiler Exhaust Outlet Stack | CO              | EPA Method 10                  |
| Stack Gas Parameters        | ---             | EPA Methods 1, 2, 3A, and 4    |

7. The Permittee shall conduct periodic performance testing on the gas line heater (EU: A16) once every five (5) years after the required initial performance test has been successfully completed and shall conform to all of the applicable requirements of this permit.
8. Table III-D-3 summarizes performance test methods for the gas line heater: [AQR 19.4.3.1]

**Table III-D-3: Performance Testing Protocol Requirements for Gas Line Heater**

| Test Point                  | Pollutant       | Method (40 CFR 60, Appendix A) |
|-----------------------------|-----------------|--------------------------------|
| Boiler Exhaust Outlet Stack | NO <sub>x</sub> | EPA Method 7E                  |
| Boiler Exhaust Outlet Stack | CO              | EPA Method 10                  |
| Stack Gas Parameters        | ---             | EPA Methods 1, 2, 3A, and 4    |

**E. Record Keeping**

1. The Permittee shall record the following: [AQR 19.4.1.3(b)]

Turbine/Duct Burner Units (EUs: A01 through A08, inclusive):

- a. time, duration, nature, and probable cause of any CEMS downtime and corrective actions taken;
- b. CEMS audit results or accuracy checks and corrective actions as required by 40 CFR 60, Appendix F, and the CEMS quality assurance plan;
- c. hourly and 12-month rolling accumulated mass emissions of NO<sub>x</sub>, CO and NH<sub>3</sub> as recorded by CEMS;
- d. quantity of natural gas consumed by each turbine hourly and monthly with rolling 12-month total;
- e. quantity of natural gas consumed by each duct burner hourly and monthly with rolling 12-month total;
- f. sulfur content of natural gas as certified by the supplier in accordance with 40 CFR 75.11(d)(2);
- g. quantity of ammonia consumed monthly with rolling 12-month total, when PEMS is used;
- h. dates, times and duration of each startup/shutdown cycle;

Auxiliary Boilers (EUs: A09 and A10):

- i. hours of operation for each auxiliary boiler monthly with rolling 12-month total;
- j. quantity of natural gas consumed by each auxiliary boiler monthly with rolling 12-month total;

IC Engines (EUs: A12 through A15, inclusive):

- k. monthly hours of operation with rolling 12-month total for each fire pump and emergency generator when operated for testing and maintenance purposes, and separately for use during emergencies; and

Gas Line Preheater (EU: A16):

- l. quantity of natural gas consumed by the gas line preheater monthly and annually.

2. The Permittee shall maintain records on site that include, at a minimum: [AQR 19.4.1.3(b)]

- a. the record keeping requirements denoted in AQR Section 49:
  - i. maintenance of a written log of the type of fuel consumed and, on a quarterly basis, of either the amount of fuel consumed or of the hours of operation; and
  - ii. maintenance of a copy of the burner efficiency test on-site and to make such documentation available for inspection to the Control Officer upon request;
- b. sulfur content of diesel fuel as certified by the supplier with each fuel delivery;
- c. log of visual emissions checks;
- d. records of opacity monitoring for HRSG units that meet all requirements of 40 CFR 60.52 Da;
- e. results of performance tests conducted within the last five (5) years;
- f. certificates of representation for the designated representative and the alternate designated representative that meet all requirements of 40 CFR 72.24;
- g. copies of all records, reports, compliance certifications, and submissions made or required under the Acid Rain Program;

- h. copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program;
  - i. all CEMS and/or PEMS information required by the CEMS and/or PEMS monitoring plan as specified in 40 CFR 75 Subpart F;
  - j. manufacturer's operation specifications for SCR and Oxidation Catalyst controls; and
  - k. quality assurance plan approved by the Control Officer. The quality assurance plan shall contain auditing schedules, reporting schedules, and design specifications for the CEMS. The CEMS shall conform to all provisions of 40 CFR 60.13, 40 CFR 60 Subpart GG, and 40 CFR 75. [AQR 19.4.1.3(a)]
3. For all inspections, visible emission checks, and testing required under monitoring, logs, reports, and records shall include at least the date and time, the name of the person performing the action, the results or findings, and the type of corrective action taken (if required). [AQR 19.4.1.3(b)]
  4. Records and data required by this certificate to be maintained by Permittee may, at the Permittee's expense, be audited at any time by a third party selected by the Control Officer. [AQR 4.4 and 19.4.3.2]
  5. Should this stationary source, as defined in 40 CFR 68.3, become subject to the accidental release prevention regulations in Part 68, then the Permittee shall submit an RMP by the date specified in Section 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR 70 or 71. [AQR 19.4.1.3]
  6. All records and logs, or a copy thereof, shall be kept on-site for a minimum of five (5) years from the date the measurement was taken or data was entered and shall be made available to DAQEM upon request. [AQR 19.4.1.3(b)]
  7. The Control Officer reserves the right to require additional requirements concerning records and record keeping for this source. [AQR 19.4.1.3(b)]

#### **F. Reporting**

1. All report submissions shall be addressed to the attention of the Control Officer. [AQR 14.3, 21.4, and 22.4]
2. All reports shall contain the following: [AQR 19.4.1.3(c) and 19.3.4]
  - a. a certification statement on the first page, i.e., "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate and complete." (A sample form is available from DAQEM); and
  - b. a certification signature from a responsible official of the company and the date certification.
3. The Permittee shall submit quarterly reports to the Control Officer. [19.4.1.3(c)]
4. The following requirements apply to quarterly reports: [AQR 19.4.1.3(c)]
  - a. The report shall include a quarterly summary of each item listed in Condition III-E-1.
  - b. The report shall include quarterly summaries of any permit deviations, their probable cause, and corrective or preventative actions taken.
  - c. The report shall be based on a calendar quarter, which includes partial calendar quarters.
  - d. The report shall be submitted to the Control Officer within 30 calendar days after the calendar quarter.

5. Regardless of the date of issuance of this operating permit, the source shall comply with the schedule for report submissions outlined in Table III-F-1: *[19.4.1.3(c)]*

**Table III-F-1: Required Report Submission Dates**

| Required Report  | Applicable Period           | Due Date <sup>1</sup>   |
|--|-----------------------------|---|
| Quarterly Report for 1 <sup>st</sup> Calendar Quarter  | January, February, March    | April 30 each year  |
| Quarterly Report for 2 <sup>nd</sup> Calendar Quarter  | April, May, June            | July 30 each year   |
| Quarterly Report for 3 <sup>rd</sup> Calendar Quarter  | July, August, September     | October 30 each year  |
| Quarterly Report for 4 <sup>th</sup> Calendar Quarter, Any additional annual records required. | October, November, December | January 30 each year  |
| Annual Compliance Certification Report   | 12 Months                   | 30 days after the Operating Permit issuance anniversary date                            |
| Annual Emission Inventory Report   | Calendar Year               | March 31 each year  |
| Excess Emission Notification   | As Required                 | Within one (1) hour of the onset of the event   |
| Excess Emission Report   | As Required                 | As soon as practicable but not to exceed ten (10) calendar days from onset of the event |
| Deviation Report   | As Required                 | Along with quarterly reports  |
| Performance Testing  | As Required                 | Within 60 days from the end of the test   |

<sup>1</sup> If the due date falls on a Saturday, Sunday or a Federal or Nevada holiday, then the submittal is due on the next regularly scheduled business day.

6. The designated representative or alternate designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 72, 40 CFR 73, and 40 CFR 75. *[40 CFR 72.9(f)]*
7. Malfunctions shall included, but not be limited to, upsets that cause or require a gas combustion turbine to exit Mode 6 firing configuration. The source has the burden of proof for any upset for which it claims to be a malfunction causing or requiring a gas combustion turbine to exit Mode 6 firing configuration. *[AQR 19.4.1.3(c)(2)]*
8. The release of one (1) gallon or more of ammonia during transfer operations (from tanker truck to injection port) shall be considered an upset/breakdown and subject to the provisions of AQR Section 25. *[AQR 19.4.1.3(c)(2)]*
9. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit conditions, permit requirements, and requirements of applicable federal regulations. *[AQR 4.4 and AQR 19.4.1.3(c)]*

**G. Mitigation**

The source has no federal offset requirements. *[AQR 59.1.1]*

**IV. ACID RAIN REQUIREMENTS**

1. In accordance with the provisions of Title IV of the Clean Air Act and 40 C.F.R. Parts 72 through 77, this Acid Rain Permit is issued to Nevada Power Chuck Lenzie Generating Station, 13605 Chuck Lenzie Court, Las Vegas, NV 89165.
2. All terms and conditions of the permit are enforceable by DAQEM and EPA under the Clean Air Act. *[40 CFR 72]*

3. The Permittee shall comply with all the applicable requirements of the Acid Rain Permit Application located in Attachment 2. *[40 CFR 72.30]*
4. This Acid Rain permit incorporates the definitions of terms in 40 CFR Part 72.2.
5. This permit is valid for a term of five (5) years from the date of issuance unless a timely and complete renewal application is submitted to DAQEM. *[40 CFR 72.69]*
6. A timely renewal application is an application that is received at least six months prior to the permit expiration date. *[40 CFR 72.30]*
7. Emissions from this source shall not exceed any allowances that the source lawfully holds under Title IV of the Act or its regulations. *[AQR 19.4.1.4 and 40 CFR 70.6(a)(4)]*

**V. OTHER REQUIREMENTS**

1. The Permittee shall not use, sell, or offer for sale any fluid as a substitute material for any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator freezer unit, or other cooling or heating device designated to use a CFC or HCFC compound as a working fluid, unless such fluid has been approved for sale in such use by the Administrator. The Permittee shall keep record of all paperwork relevant to the applicable requirements of 40 CFR 82 on site. *[40 CFR 82]*

**VI. PERMIT SHIELD**

Compliance with the terms contained in this permit shall be deemed compliance with the following applicable requirements in effect on the date of permit issuance: *[19.4.6]*

**Table VI-1: Applicable Requirements Related to Permit Shield**

| Citation                          | Title   |
|-----------------------------------|---|
| AQR Section 14.1.15<br>Subpart Da | Standards of Performance for New Stationary Sources (NSPS) – Small Industrial – Commercial – Institutional Steam Generating Units |
| AQR Section 14.1.56<br>Subpart GG | Standards of Performance for New Stationary Sources (NSPS) – Stationary Gas Turbines  |

**ATTACHMENT 1  
APPLICABLE REGULATIONS**

**REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE:**

1. NRS, Chapter 445B.
2. Applicable AQR Sections:

| Citation            | Title  |
|---------------------|--|
| AQR Section 0       | Definitions  |
| AQR Section 4       | Control Officer  |
| AQR Section 5       | Interference with Control Officer  |
| AQR Section 8       | Persons Liable for Penalties – Punishment: Defense   |
| AQR Section 9       | Civil Penalties  |
| AQR Section 10      | Compliance Schedule  |
| AQR Section 11      | Ambient Air Quality Standards  |
| AQR Section 12      | Preconstruction Review for New or Modified Stationary Sources  |
| AQR Section 12.5    | Air Quality Models   |
| AQR Section 14.1.13 | Standards of Performance for New Stationary Sources (NSPS) – Standards of Performance for Electric Utility Steam Generating Units for Which Construction Commenced After August 17, 1971 |
| AQR Section 14.1.15 | Standards of Performance for New Stationary Sources (NSPS) – Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units                           |
| AQR Section 14.1.56 | Standards of Performance for New Stationary Sources (NSPS) – Standards of Performance for Gas Turbines   |
| AQR Section 17      | Dust Control Permit for Construction Activities Including Surface Grading and Trenching  |
| AQR Section 18      | Permit and Technical Service Fees  |
| AQR Section 19      | 40 CFR Part 70 Operating Permits   |
| AQR Section 21      | Acid Rain Continuous Emissions Monitoring  |
| AQR Section 22      | Acid Rain Permits  |
| AQR Section 24      | Sampling and Testing - Records and Reports   |
| AQR Section 25      | Upset/Breakdown, Malfunctions  |
| AQR Section 26      | Emissions of Visible Air Contaminants  |
| AQR Section 28      | Fuel Burning Equipment   |
| AQR Section 29      | Sulfur Contents of Fuel Oil  |
| AQR Section 40      | Prohibition of Nuisance Conditions   |
| AQR Section 41      | Fugitive Dust  |
| AQR Section 42      | Open Burning   |
| AQR Section 43      | Odors in the Ambient Air   |
| AQR Section 49      | Compliance Requirements for Boilers and Steam Generators   |
| AQR Section 55      | Preconstruction review for New or Modified Stationary Sources in the 8-Hour Ozone Nonattainment Area   |
| AQR Section 60      | Evaporation and Leakage  |
| AQR Section 70      | Emergency Procedures   |
| AQR Section 80      | Circumvention  |

3. CAAA, Authority: 42 U.S.C. § 7401, et seq.
4. Applicable 40 CFR Subsections:

| Citation              | Title   |
|-----------------------|---|
| 40 CFR 52.21          | Prevention of Significant Deterioration (PSD)   |
| 40 CFR 52.1470        | SIP Rules   |
| 40 CFR 60, Subpart A  | Standards of Performance for New Stationary Sources (NSPS) – General Provisions   |
| 40 CFR 60, Subpart Da | Standards of Performance for New Stationary Sources (NSPS) – Electric Utility Steam Generating Units for Which Construction Commenced After August 17, 1971 |
| 40 CFR 60, Subpart Dc | Standards of Performance for New Stationary Sources (NSPS) – Small Industrial - Commercial - Institutional Steam Generating Units                           |
| 40 CFR 60, Subpart GG | Standards of Performance for New Stationary Sources (NSPS) – Stationary Gas Turbines  |
| 40 CFR 60             | Appendix A, Method 9 or equivalent, (Opacity)   |
| 40 CFR 70             | Federally Mandated Operating Permits  |
| 40 CFR 72             | Acid Rain Permits Regulation  |
| 40 CFR 73             | Acid Rain Sulfur Dioxide Allowance System   |
| 40 CFR 75             | Acid Rain Continuous Emission Monitoring  |
| 40 CFR 82             | Protection of Stratospheric Ozone   |



Chuck Lenzie Generating Station  
Plant Name (from Step 1)

**STEP 3**

**Read the  
standard  
requirements**

**Permit Requirements**

- (1) The designated representative of each affected source and each affected unit at the source shall:
  - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  - (ii) Have an Acid Rain Permit.

**Monitoring Requirements**

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

**Sulfur Dioxide Requirements**

- (1) The owners and operators of each source and each affected unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Chuck Lenzie Generating Station  
Plant Name (from Step 1)

Acid Rain - Page 3

STEP 3,  
Cont'd.

**Nitrogen Oxides Requirements** The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

**Excess Emissions Requirements**

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

**Recordkeeping and Reporting Requirements**

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

**Liability**

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Chuck Lenzie Generating Station  
Plant Name (from Step 1)

Step 3,  
Cont'd.

**Liability, Cont'd.**

- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

**Effect on Other Authorities**

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

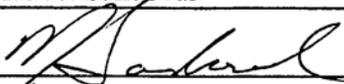
- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

**Certification**

Read the  
certification  
statement,  
sign, and  
date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

|   |               |
|---|---------------|
| Name Mark J. Sandoval   |               |
| Signature  | Date 11/10/04 |