PART 70 OPERATING PERMIT

SOURCE ID: 1584
Silverhawk Generating Station
15111 Apex Power Parkway
Las Vegas, NV  89124

ISSUED ON: March 22, 2022 EXPIRES ON: March 21, 2027

Current action: Renewal

Issued to: Nevada Power Company, dba NV Energy
6226 West Sahara Avenue
Las Vegas, Nevada 89146

Responsible Official: Jason Hammons
Senior Director Generation
PHONE: (702) 402-8225  FAX: (702) 402-0835
EMAIL: DREKOWSKI@NVENERGY.COM

NATURE OF BUSINESS:
SIC codes 4911, “Electric Services”
NAICS codes 221112, “Fossil Fuel Electric Power Generation”

Issued by the Clark County Department of Air Quality in accordance with Section 12.5 of the Clark County Air Quality Regulations.

Theodore A. Lendis, Permitting Manager
EXECUTIVE SUMMARY

NV Energy’s Silverhawk Generating Station (SGS) is an electrical power generating station located at 15111 Apex Power Parkway in North Las Vegas, Nevada. The legal description of the source location is as follows: portions of Township 18S, Range 63E, Section 5 in Apex Valley, County of Clark, State of Nevada. The source is situated in Hydrographic Area 216, Garnett Valley, which is currently designated attainment for all regulated pollutants.

SGS is a major stationary source for PM$_{10}$, PM$_{2.5}$, NO$_x$, and CO and a minor source for SO$_2$, VOCs, and HAPs. The generating station operates two natural gas-fired combustion turbine generators, two heat recovery steam generators with natural gas-fired duct burners, one steam turbine generator, one 3-cell, 6,600 gpm cooling tower, one 100-hp LPG-fired emergency generator, one 250-hp diesel-powered fire pump, and a 2,206-hp diesel emergency generator. The potential electrical generating capacity of the source is above 250 MMBtu/hr. As a result, the source is a categorical source, as defined by AQR 12.2.2(j)(1). SGS is also a source of greenhouse gas (GHG) pollutants.

The turbines are subject to the requirements of 40 CFR Part 60, Subparts A and GG, although Subpart GG will no longer apply after the date the Combustion Turbine Upgrade Project (CTUP) is completed and the modified combustion turbines start operation. After the CTUP is completed and the modified turbines start operation, the turbines will be subject to the requirements of 40 CFR Part 60, Subpart KKKK. The heat recovery steam generators (HRSGs) to the turbines are subject to 40 CFR Part 60, Subparts A and Da, although Subpart Da will no longer apply after the date the CTUP is completed and the modified combustion turbines start operation. The fire pump and emergency generator are subject to 40 CFR Part 63, Subpart ZZZZ; the 2019 diesel emergency generator is subject to 40 CFR Part 60, Subpart IIII; and the facility is subject to 40 CFR Parts 72 and 75.

The following table summarizes SGS’s potential-to-emit (PTE) for each regulated air pollutant for all emission units identified by this Part 70 OP. These emission rates are for reference purposes only and are not intended to be enforced by direct measurement unless otherwise noted in Section III below.

<table>
<thead>
<tr>
<th>PM$_{10}$</th>
<th>PM$_{2.5}$</th>
<th>NO$_x$</th>
<th>CO</th>
<th>SO$_2$</th>
<th>VOC</th>
<th>HAPs</th>
<th>GHG$^1$</th>
</tr>
</thead>
<tbody>
<tr>
<td>149.00</td>
<td>149.00</td>
<td>318.91</td>
<td>562.38</td>
<td>10.35</td>
<td>85.57</td>
<td>5.39</td>
<td>1,955,861</td>
</tr>
</tbody>
</table>

$^1$Expressed as metric tons of CO$_2$e.

DAQ will continue to require sources to estimate their GHG potential to emit in terms of each individual pollutant (CO$_2$, CH$_4$, N$_2$O, SF$_6$ etc.) during subsequent permitting actions, and the TSD includes these PTEs for informational purposes.

The process equipment operating electrical power generating station is subject to the following: 40 CFR Part 60, Subpart Da; 40 CFR Part 60, 40 CFR Part 60, Subpart IIII; and 40 CFR Part 63, Subpart ZZZZ. The existing turbines are subject to 40 CFR Part 60, Subpart GG, whereas the upgraded turbines will be subject to 40 CFR Part 60, Subpart KKKK.

Pursuant to Section 12.5 of the Clark County Air Quality Regulations (AQR 12.5), all terms and conditions in Sections I–VI and Attachment 1 of this permit are federally enforceable unless explicitly denoted otherwise.

Prepared by Cheryl Evans
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I. ACRONYMS

Table I-1: List of Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQR</td>
<td>Clark County Air Quality Regulation</td>
</tr>
<tr>
<td>ATC</td>
<td>Authority to Construct</td>
</tr>
<tr>
<td>CAAA</td>
<td>Clean Air Act Amendments</td>
</tr>
<tr>
<td>CEMS</td>
<td>continuous emissions monitoring system</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CO</td>
<td>carbon monoxide</td>
</tr>
<tr>
<td>CTG</td>
<td>combustion turbine-generator</td>
</tr>
<tr>
<td>DAQ</td>
<td>Division of Air Quality</td>
</tr>
<tr>
<td>DES</td>
<td>Clark County Department of Environment and Sustainability</td>
</tr>
<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>EU</td>
<td>emission unit</td>
</tr>
<tr>
<td>GHG</td>
<td>greenhouse gas</td>
</tr>
<tr>
<td>HAP</td>
<td>hazardous air pollutant</td>
</tr>
<tr>
<td>HRSG</td>
<td>heat recovery steam generator</td>
</tr>
<tr>
<td>kW</td>
<td>kilowatt</td>
</tr>
<tr>
<td>LHV</td>
<td>Lower Heating Value</td>
</tr>
<tr>
<td>MMBtu</td>
<td>millions of British thermal units</td>
</tr>
<tr>
<td>MW</td>
<td>megawatt</td>
</tr>
<tr>
<td>NAICS</td>
<td>North American Industry Classification System</td>
</tr>
<tr>
<td>NOx</td>
<td>nitrogen oxides</td>
</tr>
<tr>
<td>NRS</td>
<td>Nevada Revised Statutes</td>
</tr>
<tr>
<td>PM_{10}</td>
<td>particulate matter less than 10 microns</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>ppmvd</td>
<td>parts per million, volumetric dry</td>
</tr>
<tr>
<td>PTE</td>
<td>potential to emit</td>
</tr>
<tr>
<td>RATA</td>
<td>Relative Accuracy Test Audits</td>
</tr>
<tr>
<td>scf</td>
<td>standard cubic feet</td>
</tr>
<tr>
<td>SCR</td>
<td>selective catalytic reduction</td>
</tr>
<tr>
<td>SIC</td>
<td>Standard Industrial Classification</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
</tr>
<tr>
<td>SO_{2}</td>
<td>sulfur dioxide</td>
</tr>
<tr>
<td>VOC</td>
<td>volatile organic compound</td>
</tr>
</tbody>
</table>
II. GENERAL CONDITIONS

A. General Requirements

1. The permittee shall comply with all conditions of the Part 70 Operating Permit (OP). Any permit noncompliance may constitute a violation of the Clark County Air Quality Regulations (AQRs), Nevada law, and the Clean Air Act, and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a renewal application. [AQR 12.5.2.6(g)(1)]

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 be unaffected and remain valid. [AQR 12.5.2.6(f)]

3. The permittee shall pay all permit fees pursuant to AQR 18. [AQR 12.5.2.6(h)]

4. This permit does not convey property rights of any sort, or any exclusive privilege. [AQR 12.5.2.6(g)(4)]

5. The permittee agrees to allow inspection of the premises to which this permit relates by any authorized representative of the Control Officer at any time during the permittee’s hours of operation without prior notice. The permittee shall not obstruct, hamper, or interfere with any such inspection. [AQR 4.1; AQR 5.1.1; AQR 12.5.2.8(b)]

6. The permittee shall allow the Control Officer, upon presentation of credentials, to: [AQR 4.1 & AQR 12.5.2.8(b)]
   a. Access and copy any records that must be kept under the conditions of the permit;
   b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
   c. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements; and
   d. Document alleged violations using such devices as cameras or video equipment.

7. Any permittee who fails to submit relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit the needed supplementary facts or corrected information. In addition, the permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. A responsible official shall certify the additional information consistent with the requirements of AQR 12.5.2.4. [AQR 12.5.2.2]

8. Anyone issued a permit under AQR 12.5 shall post it in a location where it is clearly visible and accessible to facility employees and DAQ representatives. [AQR 12.5.2.6(m)]
B. **Modification, Revision, and Renewal Requirements**

1. No person shall begin actual construction of a new Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an Authority to Construct (ATC) from the Control Officer. \(\text{[AQR 12.4.1.1(a)]}\)

2. The permit may be revised, revoked, reopened and reissued, or terminated for cause by the Control Officer. The filing of a request by the permittee for a permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. \(\text{[AQR 12.5.2.6(g)(3)]}\)

3. The permit shall be reopened under any of the following circumstances, and when all applicable requirements pursuant to AQR 12.5.2.15 are met: \(\text{[AQR 12.5.2.15(a)]}\)
   a. New applicable requirements become applicable to a stationary source considered “major” (per the definition in AQR 12.2, AQR 12.3, or 40 CFR Part 70.3(a)(1)) with a remaining permit term of three or more years;
   b. Additional requirements (including excess emissions requirements) become applicable to an affected source under the Acid Rain Program;
   c. The Control Officer or U.S. Environmental Protection Agency (EPA) determines that the permit contains a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
   d. The EPA Administrator or the Control Officer determines that the permit must be revised or revoked to assure compliance with applicable requirements.

4. A permit, permit revision, or renewal may be approved only if all of the following conditions have been met: \(\text{[AQR 12.5.2.10(a)]}\)
   a. The permittee has submitted to the Control Officer a complete application for a permit, permit revision, or permit renewal (except a complete application need not be received before a Part 70 general permit is issued pursuant to AQR 12.5.2.20); and
   b. The conditions of the permit provide for compliance with all applicable requirements and the requirements of AQR 12.5.

5. The permittee shall not build, erect, install, or use any article, machine, equipment, or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of an applicable requirement. \(\text{[AQR 80.1 and 40 CFR Part 60.12]}\)

6. 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. \(\text{[AQR 12.5.2.6(i)]}\)

7. Permit expiration terminates the permittee’s right to operate unless a timely and complete renewal application has been submitted. \(\text{[AQR 12.5.2.11(b)]}\)

8. For purposes of permit renewal, a timely application is a complete application that is submitted at least six months, but not more than 18 months, prior to the date of permit expiration. If a source

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submits a timely application under this provision, it may continue operating under its current Part 70 OP until final action is taken on its application for a renewed Part 70 OP. [AQR 12.5.2.1(a)(2)]

C. Reporting, Notifications, and Information Requirements

1. The permittee shall submit all compliance certifications to EPA and to the Control Officer. [AQR 12.5.2.8(e)(4)]

2. Any application form, report, or compliance certification submitted to the Control Officer pursuant to the permit or the AQRs, shall contain a certification by a responsible official, with an original signature, of truth, accuracy, and completeness. This certification, and any other required under AQR 12.5, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [AQR 12.5.2.6(l)]

3. The permittee shall furnish to the Control Officer, in writing and within a reasonable time, any information that the Control Officer may request to determine whether cause exists for revising, 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 that the permit requires keeping. The permittee may furnish records deemed confidential directly to the Administrator, along with a claim of confidentiality. [AQR 12.5.2.6(g)(5)]

4. Upon request of the Control Officer, the permittee shall provide any information or analyses that will disclose the nature, extent, quantity, or degree of air contaminants that are or may be discharged by the source, and the type or nature of control equipment in use. The Control Officer may require such disclosures be certified by a professional engineer registered in the state. In addition to this report, the Control Officer may designate an authorized agent to make an independent study and report on the nature, extent, quantity, or degree of any air contaminants that are or may be discharged from the source. An agent so designated may examine any article, machine, equipment, or other contrivance necessary to make the inspection and report. [AQR 4.1]

5. The permittee shall submit annual emissions inventory reports based on the following: [AQR 18.6.1 and AQR 12.5.2.4]

   a. The annual emissions inventory must be submitted to DAQ by March 31 of each calendar year (if March 31 falls on a Saturday or Sunday, or on a Nevada or federal holiday, the submittal shall be due on the next regularly scheduled business day);

   b. The calculated actual annual emissions from each emission unit shall be reported even if there was no activity, along with the total calculated actual annual emissions for the source based on the emissions calculation methodology used to establish the potential to emit (PTE) in the permit or an equivalent method approved by the Control Officer prior to submittal; and

   c. As the first page of text, a signed certification containing the sentence: “I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate, and complete.” This statement shall be signed and dated by a responsible official of the company (a sample form is available from DAQ).

6. Stationary sources that emit 25 tons or more of nitrogen oxide (NOx) and/or 25 tons or more of volatile organic compounds (VOCs) during a calendar year from emission units, insignificant activities, and exempt activities shall submit an annual emissions statement for both pollutants. This
statement must include actual annual NOx and VOC emissions from all activities, including emission units, insignificant activities, and exempt activities. Emissions statements are separate from, and additional to, the calculated annual emissions reported each year for all regulated air pollutants (i.e., the emissions inventory). [AQR 12.9.1]

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 in order to maintain compliance with the conditions of this permit. [AQR 12.5.2.6(g)(2)]

2. Any person who violates any provision of the AQRs, 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 from DAQ is guilty of a civil offense and shall pay a civil penalty levied by the Air Pollution Control Hearing Board and/or the Hearing Officer of not more than $10,000. Each day of violation constitutes a separate offense. [AQR 9.1; NRS 445B.640]

3. Any person aggrieved by an order issued pursuant to AQR 9.1 is entitled to review, as provided in Chapter 233B of the NRS. [AQR 9.12]

4. The permittee shall comply with the requirements of Title 40, Part 61 of the Code of Federal Regulations (40 CFR Part 61), Subpart M—the National Emission Standard for Asbestos—for all demolition and renovation projects. [AQR 13.1(b)(8)]

5. The permittee shall certify compliance with the terms and conditions contained in this Part 70 OP, including emission limitations, standards, work practices, and the means for monitoring such compliance. [AQR 12.5.2.8(e)]

6. The permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W. Russell Road, Suite 200, Las Vegas, NV 89118) and the Region 9 Administrator (Director, Air and Radiation Division, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for each calendar year will be due on January 30 of the following year, and shall include the following: [AQR 12.5.2.8(e)]

   a. The identification of each term or condition of the permit that is the basis of the certification;

   b. The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. These methods and means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements described in 40 CFR Part 70.6(a)(3). If necessary, the permittee shall also identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Clean Air Act, which prohibits knowingly making a false certification or omitting material information; and
c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in (b) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify, as possible exceptions to compliance, any periods during which compliance was required and in which an excursion or exceedance, as defined under 40 CFR Part 64, occurred.

7. The permittee shall report to the Control Officer any startup, shutdown, malfunction, emergency, or deviation that causes emissions of regulated air pollutants in excess of any limits set by regulations or this permit. The report shall be in two parts, as specified below: [AQR 12.5.2.6(d)(4)(B); AQR 25.6.1]

a. Within 24 hours of the time the permittee learns of the excess emissions, the permittee shall notify DAQ by phone at (702) 455-5942, by fax at (702) 383-9994, or by email at airquality@clarkcountynv.gov.

b. Within 72 hours of the notification required by paragraph (a) above, the permittee shall submit a detailed written report to DAQ containing the information required by AQR 25.6.3.

8. With the semiannual monitoring report, the permittee shall report to the Control Officer all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. [AQR 12.5.2.6(d)(4)(B)]

9. The owner or operator of any source required to obtain a permit under AQR 12 shall report to the Control Officer emissions in excess of an applicable requirement or emission limit that pose a potential imminent and substantial danger to public health and safety or the environment as soon as possible, but no later than 12 hours after the deviation is discovered, and submit a written report within two days of the occurrence. [AQR 25.6.2]

E. Performance Testing Requirements

1. At the Control Officer’s request, the permittee shall test (or have tests performed) to determine emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of those allowed by the AQRs is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice, and may observe the testing. All tests shall be conducted by reputable, qualified personnel. [AQR 4.2]

2. At the Control Officer’s request, 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 4.2]

3. The permittee shall submit to the Control Officer for approval a performance testing protocol that contains testing, reporting, and notification schedules, test protocols, and anticipated test dates no less than 45 days, but no more than 90 days, before the anticipated date of the performance test unless otherwise specified in Section III.E of this permit. [AQR 12.5.2.8]
4. The permittee shall submit to EPA for approval any alternative test methods EPA has not already approved to demonstrate compliance with a requirement under 40 CFR Part 60. [40 CFR Part 60.8(b)]

5. The permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days of the end of the test. [AQR 12.5.2.8]

### 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. [AQR 12.5.2.3 and 12.4 ATC issued (10/20/2021)]

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

<table>
<thead>
<tr>
<th>EU</th>
<th>Description</th>
<th>Rating</th>
<th>Manufacturer</th>
<th>Model #</th>
<th>Serial #</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01</td>
<td>Natural Gas-Fired Turbine</td>
<td>175 MW upgraded to 193 MW upon completion of Combustion Turbine Upgrade Project</td>
<td>Westinghouse</td>
<td>501FD</td>
<td>37A-8193-1</td>
</tr>
<tr>
<td>A02</td>
<td>Duct-Burner Heat Recovery Steam Generator (associated with A01)</td>
<td>530 MMBtu/hr</td>
<td>Alstom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A03</td>
<td>Natural Gas-Fired Turbine</td>
<td>175 MW upgraded to 193 MW upon completion of Combustion Turbine Upgrade Project</td>
<td>Westinghouse</td>
<td>501FD</td>
<td>37A-8194-1</td>
</tr>
<tr>
<td>A04</td>
<td>Duct-Burner Heat Recovery Steam Generator (associated with A03)</td>
<td>530 MMBtu/hr</td>
<td>Alstom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A05</td>
<td>Diesel-Powered Fire Pump; DOM: 2004</td>
<td>250 hp</td>
<td>Clarke</td>
<td>JU6HUF50</td>
<td>PE6068TF234110</td>
</tr>
<tr>
<td>A06</td>
<td>LPG-Powered Emergency Engine; DOM: 2004</td>
<td>100 hp</td>
<td>Generac</td>
<td>SG060</td>
<td>2072892</td>
</tr>
<tr>
<td>A07</td>
<td>Three-Cell Cooling Tower: 0.001% Drift Loss; 8,144 ppm TDS</td>
<td>6,600 gpm</td>
<td>International Cooling Tower</td>
<td>FCC-12-03</td>
<td>FCC-12-03-8434-03</td>
</tr>
<tr>
<td>A08</td>
<td>Emergency Generator</td>
<td>1,500 kW</td>
<td>Caterpillar</td>
<td>SR5</td>
<td>G2N02057</td>
</tr>
<tr>
<td></td>
<td>Diesel-Powered Engine; DOM: 2019</td>
<td>2,206 hp</td>
<td></td>
<td>3512C</td>
<td>LYH00428</td>
</tr>
</tbody>
</table>

The units in Table III-A-2 are present at this source, but are insignificant activities pursuant to AQR 12.5. The emissions from these units or activities, when added to the PTE of the source, will not make the source major for any additional pollutant.

Prepared by Cheryl Evans
### Table III-A-2: Summary of Insignificant Activities

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Combustions Sources</td>
</tr>
<tr>
<td>Station Maintenance Activities</td>
</tr>
<tr>
<td>Maintenance Shop Activities (e.g., part washers, sand blasters, etc.)</td>
</tr>
<tr>
<td>Steam Cleaning Operations</td>
</tr>
<tr>
<td>LPG Tank, 500 gallons</td>
</tr>
<tr>
<td>Diesel Tank, 280 gallons</td>
</tr>
<tr>
<td>Lube oil sumps and vents</td>
</tr>
<tr>
<td>Portable gas-fired pump, 3.5 hp</td>
</tr>
</tbody>
</table>

### B. Nonroad Engines

Pursuant to Title 40, Part 1068.30 of the Code of Federal Regulations (40 CFR Part 1068.30), nonroad engines that are portable or transportable (i.e., not used on self-propelled equipment) shall not remain at a location for more than 12 consecutive months; otherwise, the engine(s) will constitute a stationary reciprocating internal combustion engine (RICE) and be subject to the applicable requirements of 40 CFR Part 63, Subpart ZZZZ; 40 CFR Part 60, Subpart IIII; and/or 40 CFR Part 60, Subpart JJJJ. Stationary RICE shall be permitted as emission units upon commencing operation at this stationary source. Records of location changes for portable or transportable nonroad engines shall be maintained, and shall be made available to the Control Officer upon request. These records are not required for engines owned and operated by a contractor for maintenance and construction activities, as long as records are maintained demonstrating that such work took place at the stationary source for periods less than 12 consecutive months.

Nonroad engines used on self-propelled equipment do not have this 12-month limitation or the associated recordkeeping requirements.

### C. Emission Limitations and Standards

#### 1. Emission Limits

**Turbines/Duct Burners**

a. The permittee shall not allow the actual emissions, including the emissions from startup, shutdown and testing/tuning, from EUs A01, A02, A03, and A04 to exceed the PTE listed in Table III-C-1 during any consecutive 12-month period. \([AQR 12.5.2.6(b)]\)

### Table III-C-1: Emission Unit PTE, Including Startup, Shutdown and Testing/Tuning (tons per year)\(^1\)

<table>
<thead>
<tr>
<th>EU</th>
<th>PM(<em>{10}/PM</em>{2.5})</th>
<th>NO(_x)</th>
<th>CO</th>
<th>SO(_2)</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01 + A02</td>
<td>73.80</td>
<td>154.10</td>
<td>280.40</td>
<td>5.10</td>
<td>42.60</td>
</tr>
<tr>
<td>A03 + A04</td>
<td>73.80</td>
<td>154.10</td>
<td>280.40</td>
<td>5.10</td>
<td>42.60</td>
</tr>
</tbody>
</table>

\(^1\)Annual PTE for turbine/duct burner pairs (A01/A02 and A03/A04) are based on 8,000 hours for normal operations, including 2,000 hours of turbines operating with duct firing at 100% load and 900 hours of startup/shutdown cycles.
b. The permittee shall not allow actual emissions from each emission unit to exceed the emission rates listed in Table III-C-2 during normal operations (excluding startup, shutdown, and testing/tuning). [Part 70 Operating Permit Renewal Application (10/20/2020) and AQR 12.5.2.6(b)]

Table III-C-2: Emission Unit Rate Limits (pounds per hour)

<table>
<thead>
<tr>
<th>EU</th>
<th>NO$_x$</th>
<th>CO</th>
<th>SO$_2$</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01+A02</td>
<td>23.0</td>
<td>22.4</td>
<td>1.5</td>
<td>6.4</td>
</tr>
<tr>
<td>A03+A04</td>
<td>23.0</td>
<td>22.4</td>
<td>1.5</td>
<td>6.4</td>
</tr>
</tbody>
</table>

c. The permittee shall not allow the emission concentration limits for NO$_x$ and CO, outlined in Table III-C-3, to be exceeded for any three-hour rolling averaging period as determined by the CEMS, excluding any startup, shutdown, or testing/tuning periods. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-7 (12/04/06) and Part 70 Operating Permit Renewal Application (10/20/2020)]

Table III-C-3: Emission Concentration Limits for each Turbine and Duct Burner$^1$

<table>
<thead>
<tr>
<th></th>
<th>NO$_x$ @ 15% O$_2$</th>
<th>CO @ 15% O$_2$</th>
<th>VOC @ 15% O$_2$</th>
</tr>
</thead>
<tbody>
<tr>
<td>With duct firing</td>
<td>2.5 ppmvd</td>
<td>4 ppmvd</td>
<td>2.0 ppmvd</td>
</tr>
<tr>
<td>Without duct firing</td>
<td>2.5 ppmvd</td>
<td>4 ppmvd</td>
<td>2.0 ppmvd</td>
</tr>
</tbody>
</table>

$^1$ Limits based on normal operations, 3-hour averaging period.

d. Prior to the completion of the CTUP, the permittee shall not allow the sulfur content of the natural gas fuel to exceed an average concentration of 0.75 grains per 100 dry standard cubic feet (gr/dscf) from the combustion turbines (EUs: A01 and A03). The permittee shall verify compliance with the fuel sulfur in accordance with 40 CFR Part 60.334(h). [NSR ATC/OP Modification 0, Amendment 3, Condition III-C-5 (12/04/06)]

e. Upon completion of the CTUP, the permittee shall not burn any fuel containing total potential SO$_2$ emissions from the combustion turbines (EUs: A01 and A03) and duct burners (EUs: A02 and A04), combined, in excess of 0.060 lb per MMBtu of heat input. [12.4 ATC issued 10/20/2021 and 40 CFR 60.4330(a)(2)]

f. Prior to the CTUP, the permittee shall not allow actual emissions from each emission unit to exceed the emission concentrations during testing/tuning listed in Table III-C-4. [Part 70 Operating Permit Renewal Application (10/20/2020)]

Table III-C-4: Applicable NO$_x$ Concentration Standard for Subpart GG$^1$ (ppmvd)

<table>
<thead>
<tr>
<th>EU</th>
<th>NO$_x$ @ 15% O$_2$</th>
<th>NSPS GG</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01/A02 (Turbine Unit 5)</td>
<td>103</td>
<td></td>
</tr>
<tr>
<td>A03/A04 (Turbine Unit 6)</td>
<td>103</td>
<td></td>
</tr>
</tbody>
</table>

$^1$ Although the Subpart GG standard applies only to combustion turbines, it is applied here to all emissions from the turbine stack.

$^2$ Based on a 4-hour rolling average.
g. After the CTUP and commencement of operation of the modified turbines, the permittee shall not allow actual emissions from each emission unit to exceed the emission concentrations listed in Table III-C-5 during testing/tuning. [Part 70 Operating Permit Significant Revision Application (12/22/2020)]

### Table III-C-5: Applicable NO\textsubscript{x} Concentration Standard for Subpart KKKK\textsuperscript{1} (ppmvd)

<table>
<thead>
<tr>
<th>EU</th>
<th>NO\textsubscript{x} (ppmvd @ 15% O\textsubscript{2}), 30-Day Rolling Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For Turbine Loads Greater Than or Equal To 75% of Peak Load</td>
</tr>
<tr>
<td>A01/A02 (Turbine Unit 5)</td>
<td>15</td>
</tr>
<tr>
<td>A03/A04 (Turbine Unit 6)</td>
<td>15</td>
</tr>
</tbody>
</table>

h. The permittee shall comply with the emission rate limits in Table III-C-6 during periods of testing/tuning. [Part 70 Operating Permit Renewal Application (10/20/2020)]

### Table III-C-6: Emission Rate Limitations for CO during Testing/Tuning

<table>
<thead>
<tr>
<th>EU</th>
<th>CO (lbs in a clock hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01/A02 (Turbine Unit 5)</td>
<td>400</td>
</tr>
<tr>
<td>A02/A04 (Turbine Unit 6)</td>
<td>400</td>
</tr>
</tbody>
</table>

**Engines**

i. The permittee shall not allow the actual emissions per year from each emission unit to exceed the PTE listed in Table III-C-6, except with engines intended for use in emergencies. [AQR 12.5.2.6(b)]

### Table III-C-6: Emission Unit PTE (tons per year)

<table>
<thead>
<tr>
<th>EU</th>
<th>Condition\textsuperscript{1}</th>
<th>PM\textsubscript{2.5}/PM\textsubscript{10}</th>
<th>NO\textsubscript{x}</th>
<th>CO</th>
<th>SO\textsubscript{2}</th>
<th>VOC</th>
<th>HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A05</td>
<td>500 hrs/year</td>
<td>0.14</td>
<td>1.94</td>
<td>0.42</td>
<td>0.13</td>
<td>0.16</td>
<td>0.02</td>
</tr>
<tr>
<td>A06</td>
<td>500 hrs/year</td>
<td>0.01</td>
<td>0.77</td>
<td>0.10</td>
<td>0.01</td>
<td>0.02</td>
<td>0.01</td>
</tr>
<tr>
<td>A08</td>
<td>500 hrs/year</td>
<td>0.05</td>
<td>8.00</td>
<td>1.06</td>
<td>0.01</td>
<td>0.19</td>
<td>0.02</td>
</tr>
</tbody>
</table>

\textsuperscript{1}The quantities in this column are not intended as enforceable permit limits unless stated otherwise in this permit.

**Cooling Tower**

j. The permittee shall not allow the actual emissions for the emission unit (EU: A07) to exceed the PTE listed in Table III-C-7. [AQR 12.5.2.6(b)]

### Table III-C-7: Emission Unit PTE (tons per year)

<table>
<thead>
<tr>
<th>EU</th>
<th>Condition\textsuperscript{1}</th>
<th>PM\textsubscript{2.5}/PM\textsubscript{10}</th>
<th>NO\textsubscript{x}</th>
<th>CO</th>
<th>SO\textsubscript{2}</th>
<th>VOC</th>
<th>HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A07</td>
<td>8,760 hrs/year</td>
<td>1.20</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

\textsuperscript{1}The quantities in this column are not intended as enforceable permit limits unless stated otherwise in this permit.
Other

k. The permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20% opacity for a period of more than six consecutive minutes. [*AQR 26.1]*

2. Operational Limits

Turbines/Duct Burners

a. The permittee shall limit each combustion turbine generator to the manufacturer’s maximum heat input rating of 1,980 MMBtu/hr (HHV) at 67°F and a maximum heat input of 15,840,000 MMBtu during any consecutive 12-month period. (EUs: A01 and A03). [*NSR ATC/OP Modification 0, Amendment 3, Condition III-A-1 (12/04/06) and AQR 12.5.2.6(a)]

b. The permittee shall limit each duct burner to the manufacturer’s maximum heat input rating of 530 MMBtu/hr (HHV) and a maximum heat input of 1,060,000 MMBtu during any consecutive 12-month period. (EUs: A02 and A04). [*NSR ATC/OP Modification 0, Amendment 3, Condition III-A-2 (12/04/06) and AQR 12.5.2.6(a)]

c. The permittee shall limit each duct burner (EU: A02 and A04) to a maximum of 2,000 hours during any consecutive 12-month period. [*NSR ATC/OP Modification 0, Amendment 3, Condition III-A-2 (12/04/06) and AQR 12.5.2.6(a)]

d. Startup shall be defined as the period beginning with ignition and lasting until a turbine (EU: A01 or A03) has reached a continuous and stable operating level and the catalyst has reached optimal operating temperature. Shutdown means the period immediately preceding the cessation of firing of a turbine, not to exceed 60 minutes. [*NSR ATC/OP Modification 0, Amendment 3, Condition III-A-4 (12/04/06); Part 70 Operating Permit Renewal Application (10/20/2020); and AQR 12.5.2.6(a)]

e. Testing/tuning is defined as planned operation outside of normal emission limitations for the purposes of data collection, diagnostics, or operational adjustment (EUs: A01/A02 and A03/A04). [*Part 70 Operating Permit Renewal Application (10/20/2020) and AQR 12.5.2.6(a)]

f. The permittee shall limit all testing/tuning to a cumulative total of 600 minutes per calendar year per turbine (EUs: A01/A02 and A03/A04). [*Part 70 Operating Permit Renewal Application (10/20/2020) and AQR 12.5.2.6(a)]

Fire Pump/Emergency Generators

g. The permittee shall limit the operation of the diesel-fired fire pump (EU: A05) for testing and maintenance purposes to 100 hours/year. The permittee may operate the fire pump(s) up to 50 hours/year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. [*40 CFR Part 63, Subpart ZZZZ]*

h. The permittee shall limit the operation of the propane-fired emergency generators (EU: A06) for testing and maintenance purposes to 100 hours/year. The permittee may operate the emergency generators up to 50 hours/year for nonemergency situations, but those hours
count towards the 100 hours provided for testing and maintenance. The emergency generator(s) cannot be used for peak shavings or demand response, nor to generate income for a facility by supplying power to an electric grid or to otherwise supply power as part of a financial arrangement with another entity. [40 CFR Parts 63.6585 & 63.6640 (Subpart ZZZZ)]

i. The permittee shall limit the operation of the diesel-fired emergency generator (EU: A08) for testing and maintenance to 100 hours/year. The permittee may operate the emergency generator up to 50 hours/year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. The emergency generator(s) cannot be used for peak shavings or demand response. [40 CFR Part 60, Subpart III]

3. Emission Controls

**Turbines/Duct Burners**

a. The permittee shall, at all times, including periods of startup, shutdown, malfunction, and testing/tuning, maintain and operate the source in a manner consistent with good air pollution control practice for minimizing emissions, as required by 40 CFR Part 60.11. Determination of whether acceptable operating and maintenance procedures are being used shall be based on information available to the Control Officer that may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-1 (12/04/06); Part 70 Operating Permit Renewal Application (10/20/2020); and AQR 12.5.2.6(a)]

b. The permittee shall control NO\textsubscript{x} exhaust emissions from each turbine and duct burner with dry low-NO\textsubscript{x} combustors and an SCR system installed and operated in accordance with manufacturer’s specifications and good operating practice. The NO\textsubscript{x} exhaust emissions may be further controlled by operation of a pilot water injection system, operated as needed to ensure the NO\textsubscript{x} emission limits outlined in this Part 70 Operating Permit are not exceeded. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-1 (12/04/06) and AQR 12.5.2.6(a)]

c. The permittee shall operate each SCR system whenever the associated turbine unit or duct burner is operating, excluding periods of startup, shutdown, and testing/tuning. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-2 (12/04/06); Part 70 Operating Permit Renewal Application (10/20/2020); and AQR 12.5.2.6(a)]

d. The permittee shall install oxidation catalysts for the control of CO and VOCs on each turbine unit/duct burner (EU: A01/A02 and A03/A04) that shall be maintained and operated in accordance with manufacturer’s specifications. The oxidation catalysts shall be operated at all times the associated turbine unit/duct burner is operating, excluding periods of startup, shutdown, and testing/tuning. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-4 (12/04/06); Part 70 Operating Permit Renewal Application (10/20/2020); and AQR 12.5.2.6(a)]
e. The permittee shall control SO$_2$ emissions from each combined cycle system by exclusive use of pipeline-quality natural gas and by applying good combustion practices. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-8 (12/04/06) and AQR 12.5.2.6(a)]

f. The permittee shall control PM$_{10}$ emissions from each combined cycle system by properly maintaining the inlet air filters preceding each turbine per manufacturer’s specifications. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-9 (12/04/06) and AQR 12.5.2.6(a)]

g. The permittee shall not construct combustion turbine/HRSG exhaust stacks that exceed a maximum height of 150 feet above grade or a maximum diameter of 18 feet. Any change in stack height or diameter, as modeled in the application, will require a revision to this Part 70 Operating Permit. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-13 (12/04/06) and AQR 12.5.2.6(a)]

**Fire Pump**

h. The permittee shall operate the diesel fire pump (EU: A05) with a turbocharger, aftercooler, and timing retardation. [NSR ATC/OP Modification 0, Amendment 3, Condition III-A-7 (12/04/06) and AQR 12.5.2.6(a)]

i. The permittee shall operate and maintain the fire pump (EU: A05) in accordance with the manufacturer’s specifications. [AQR 12.5.2.6(a)]

j. The fire pump (EU: A05) is subject to the provisions of 40 CFR Part 63, Subpart ZZZZ and shall comply with the following requirements: [AQR 12.5.2.6(a) and 40 CFR Part 63.6603]

   i. Change oil and filter every 500 hours of operation or annually, whichever comes first;

   ii. Inspect air cleaners every 1,000 hours of operation or annually, whichever comes first; and

   iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary

**Emergency Generator**

k. The permittee shall combust only propane in the emergency generator (EU: A06). [NSR ATC/OP Modification 0, Amendment 3, Condition III-A-8 (12/04/06)]

l. The permittee shall operate and maintain the propane-fired emergency generator (EU: A06) in accordance with the manufacturer’s specifications. [AQR 12.5.2.6(a)]

m. The propane emergency generator (EU: A06) is subject to the provisions of 40 CFR Part 63, Subpart ZZZZ and shall comply with the following requirements: [AQR 12.5.2.6(a) and 40 CFR Part 63.6603]

   i. Change oil and filter every 500 hours of operation or annually, whichever comes first;

   ii. Inspect air cleaners every 1,000 hours of operation or annually, whichever comes first; and

   iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
n. The permittee shall operate the diesel emergency generator (EU: A08) with a turbocharger and aftercooler. [ATC APP for Major Sources October 7, 2019]

o. The permittee shall operate and maintain the diesel emergency generator (EU: A08) in accordance with the manufacturer’s specifications. [ATC APP for Major Sources (10/07/2019), 40 CFR 60.4211(a)(1)]

Cooling Tower

p. The permittee shall operate the cooling tower (EU: A07) with drift eliminators that have a manufacturer’s maximum drift rate of 0.001%. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-14 (12/04/06)]

q. The permittee shall limit the TDS of the cooling tower water (EU: A07) to a maximum concentration of 8,144 ppm, with a circulation rate not to exceed 6,600 gallons per minute. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-14 (12/04/06)]

r. The permittee shall operate and maintain the cooling tower (EU: A07) in accordance with the manufacturer’s specifications. [AQR 12.5.2.6(a)]

s. The permittee shall use no chromium-containing compounds for water treatment in any cooling towers. [AQR 12.5.2.6(a)]

D. Monitoring

Visible Emissions [AQR 12.5.2.6(d)]

1. The responsible official shall sign and adhere to the Visible Emissions Check Guidebook and keep a copy of the signed guide on-site at all times.

2. The permittee shall conduct a visual emissions check at least quarterly. Visual observations shall include the fire pump and emergency generator (EUs: A05, A06, and A08) while operating to demonstrate compliance with the opacity limit. If any aspect of the fire pump and/or emergency generator does not operate during the calendar quarter, then no observation of that unit shall be required.

3. If no plume appears to exceed the opacity standard during the visible emissions check, the date, location, and results shall be recorded, along with the viewer’s name.

4. If a plume appears to exceed the opacity standard, the permittee shall do one of the following:

   a. Immediately correct the perceived exceedance, then record the first and last name of the person who performed the emissions check, the date the check was performed, the unit(s) observed, and the results of the observation; or

   b. Call a certified Visible Emissions Evaluation (VEE) reader to perform an EPA Method 9 evaluation.

      i. For sources required to have a certified reader on-site, the reader shall start Method 9 observations within 15 minutes of the initial observation. For all other sources, the reader shall start Method 9 observations within 30 minutes of the initial observation.
ii. If no opacity exceedance is observed, the certified VEE reader shall record the first and last name of the person who performed the VEE, the date the VEE was performed, the unit(s) evaluated, and the results. A Method 9 VEE form shall be completed for each emission unit that was initially perceived to have exceeded the opacity limit, and the record shall also indicate:

(1) The cause of the perceived exceedance;
(2) The color of the emissions; and
(3) Whether the emissions were light or heavy.

i. If an opacity exceedance is observed, the certified VEE reader shall take immediate action to correct the exceedance. The reader shall then record the first and last name of the person performing the VEE, the date the VEE was performed, the unit(s) evaluated, and the results. A Method 9 VEE form shall be completed for each reading identified, and the record shall also indicate:

(1) The cause of the exceedance;
(2) The color of the emissions;
(3) Whether the emissions were light or heavy;
(4) The duration of the emissions; and
(5) The corrective actions taken to resolve the exceedance.

5. Any scenario of visible emissions noncompliance can and may lead to enforcement action.

6. Visible emissions checks do not require a certified observer unless the visible emissions appear to exceed the allowable opacity limit and to last more than 30 seconds, but an EPA Method 9 observation establishes that the emissions do not in fact exceed the standard.

**Turbines/Duct Burner**

7. Prior to the CTUP, this source is subject to 40 CFR Part 60, Subparts A, Da, and GG; 40 CFR Part 70; 40 CFR Part 72; and 40 CFR Part 75. It is the permittee’s responsibility to know and comply with all requirements within the applicable parts of these federal regulations. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-2 (12/04/06) and AQR 12.5.2.6(d)]

8. After the CTUP is completed and the modified combustion turbines start operation, the modified combustion turbines and duct burners (EUs: A01/A02 and A03/A04) will be subject to 40 CFR Part 60, Subpart KKKK. It is the permittee’s responsibility to know and comply with all requirements within the applicable parts of these federal regulations. [AQR 12.4 ATC issued 10/20/2021 and AQR 12.5.2.6(d)]

9. To demonstrate continuous direct compliance with all emission limitations for NOx and CO specified in this permit, the permittee shall install, calibrate, maintain, operate, and certify CEMS for NOx, CO, and O2 on each stationary gas turbine unit in accordance with both 40 CFR Part 60 and 40 CFR Part 75. Each CEMS shall include an automated data acquisition and handling system. Each system shall monitor and record at least the following data: [AQR 12.5.2.6(d)]
a. Exhaust gas concentrations of NO\textsubscript{x}, CO, and diluent O\textsubscript{2};

b. Exhaust gas flow rate (by direct or indirect methods);

c. Fuel flow rate and type;

d. Hours of normal operation;

e. 3-hour rolling averages for each NO\textsubscript{x} and CO concentration;

f. Hourly and consecutive 12-month period accumulated mass emissions (in pounds) of NO\textsubscript{x} and CO; and

g. Hours of downtime of the CEMS.

10. The permittee shall calculate and log all startup, shutdown, and testing/tuning emissions, except those that can be recorded using CEMS, for purposes of demonstrating compliance with annual emissions limits. [NSR ATC/OP Modification 0, Amendment 3, Condition II-B-4 (12/04/06); Part 70 Operating Permit Renewal Application (10/20/2020); and AQR 12.5.2.6(d)]

11. All emissions recorded by the CEMS shall be reported in clock hour increments. Any clock hour that contains at least one minute of a startup event shall be considered a startup hour, and any clock hour that contains at least one minute of a shutdown event shall be considered a shutdown hour. [AQR 12.5.2.6(d)]

12. Any clock hour that contains any part of a testing/tuning event shall not be subject to the limits in Tables III-C-2 and III-C-3. [Part 70 Operating Permit Renewal Application (10/20/2020) and AQR 12.5.2.6(d)]

13. The permittee shall maintain and adhere to the latest QAP for all CEMS submitted to and approved by DAQ, which shall include auditing and reporting schedules, reporting schedules, design specifications, and other quality assurance requirements for each CEMS. [40 CFR Part 75]

14. The permittee shall conduct periodic audit procedures and QA/QC procedures for CEMS that conform to the provisions of 40 CFR Part 60, Appendix F or 40 CFR Part 75, Appendix B, as applicable. [AQR 12.5.2.6(d)]

15. The permittee shall conduct relative accuracy test audits (RATA) of the NO\textsubscript{x}, CO, and O\textsubscript{2} CEMS as required—and at least every four calendar quarters—except where the affected facility is off-line (does not operate) in the fourth calendar quarter since the quarter of the previous RATA. In that case, the RATA shall be performed in the quarter in which the unit recommences operation. [40 CFR Part 60, Appendix F 5.1.1 and 5.1.4]

16. The permittee shall conduct RATA of the CO, NO\textsubscript{x}, and diluent O\textsubscript{2} CEMS at least annually, or at the frequency specified in 40 CFR Parts 60 and 75 (as applicable). [AQR 12.5.2.6(d)]

17. Periods where the missing data substitution procedures in 40 CFR Part 75, Subpart D are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under 40 CFR Part 60.7(c). [40 CFR Part 60.4350 (d)]

18. The permittee shall take the corrective actions described in 40 CFR Part 75, Appendix B if an out-of-control period occurs with a monitor or the CEMS. [40 CFR Part 75.24]
19. Prior to the completion of the CTUP, when operating with natural gas, the permittee shall verify compliance with the SO\textsubscript{2} emission limitations specified in the permit by utilizing fuel that meets the definition of natural in 40 CFR Part 60.331(u). The maximum total sulfur content of the fuel must be 0.75 gr/100 scf or less in accordance with 40 CFR Part 60.334(h). [NSR ATC/OP Modification 0, Amendment 3, Condition III-C-5 (12/04/06)]

20. Upon completion of the CTUP, the permittee must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR Part 60.4365, using the total sulfur methods described in 40 CFR Part 60.4415. [40 CFR Part 60.4360]

21. Upon completion of the CTUP, the permittee may elect not to monitor the total sulfur content of the fuel combusted in the turbines if the fuel is demonstrated not to exceed potential sulfur emissions of 0.060 lb SO\textsubscript{2}/MMBtu heat input. The permittee shall use one of the following sources of information to make the required demonstration: [12.4 ATC issued 10/20/2021 and 40 CFR 60.4365]

   a. The gas quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying that the maximum total sulfur content of the fuel is 20 gr/100 scf or less, and documentation that potential sulfur emissions are less than 0.060 lb SO\textsubscript{2}/MMBtu heat input; or

   b. Representative fuel sampling data showing that the sulfur content of the fuel does not exceed 0.060 lb SO\textsubscript{2}/MMBtu heat input. At a minimum, the amount of fuel sampling data specified in 40 CFR Part 75, Appendix D, Sections 2.3.1.4 or 2.3.2.4 is required.

22. The permittee shall determine the natural gas heating value and consumption rates for all turbine units. [NSR ATC/OP Modification 0, Amendment 3, Condition III-B-6 (12/04/06) and AQR 12.5.2.6(d)]

23. The permittee shall monitor the natural gas fuel flow rate of each turbine and each duct burner with a continuous fuel monitoring system. [NSR ATC/OP Modification 0, Amendment 3, Condition III-E-9 (12/04/06) and AQR 12.5.2.6(d)]

24. The permittee shall monitor monthly occurrences and duration of startup/shutdown cycles for each turbine unit (EUs: A01/A02 and A03/A04). [NSR ATC/OP Modification 0, Amendment 3, Condition III-E-9 (12/04/06) and AQR 12.5.2.6(d)]

25. The permittee shall monitor the duration of testing/tuning events for each turbine unit (EUs: A01/A03 and A02/A04). [Part 70 Operating Permit Renewal Application (10/20/2020) and AQR 12.5.2.6(d)]

**Fire Pump/Generators**

26. The permittee shall operate the fire pump and emergency generator (EUs: A05, A06, and A08) with a nonresettable hour meter and monitor the duration of operation for testing, maintenance, and nonemergency operation, and separately for emergencies. [40 CFR Part 63, Subpart ZZZZ and Subpart IIII]

**Cooling Tower**

27. The permittee shall monitor the TDS of the cooling tower recirculation water daily, using a conductivity meter or another device the Control Officer has approved in advance, when operating. [NSR ATC/OP Modification 0, Amendment 3, Condition III-E-10 (12/04/06) and AQR 12.5.2.6(d)]
Other

28. The permittee shall monitor the emissions (in tons per year) of any regulated NSR pollutant that could increase above the significant thresholds as a result of the CTUP for a period of 10 years following resumption of regular operations after the change. [12.4 ATC issued 10/20/2021 and AQR 12.5.2.6(d)]

E. Testing

1. The permittee is subject to performance testing in accordance with 40 CFR 60 Subpart A; 40 CFR Part 60, Subparts GG and KKKK; 40 CFR Part 60, Subpart Da; 40 CFR Part 72; and the Air Quality Source Testing Guidelines (9/19/2019). [NSR ATC/OP Modification 0, Amendment 3, Condition III-D-I (12/04/06) and AQR 12.5.2.8]

2. The permittee shall utilize performance testing as an initial instrument for determining compliance with the applicable emission limitations set forth in Tables III-C-1 through III-C-3 of this Part 70 Operating Permit. This does not preclude the use of other credible evidence in determining or showing compliance. [NSR ATC/OP Modification 0, Amendment 3, Condition III-D-6 (12/04/06) and AQR 12.5.2.8]

3. The permittee conducted initial performance tests for NOx, CO, VOCs, and opacity on both turbine units and associated duct burners. Performance testing for NOx, CO, and VOCs demonstrated compliance with the part-per-million and pound-per-hour limits in this permit. Initial performance testing for VOCs on the turbine units was twofold, and consisted of testing with duct burners on and duct burners off. The initial performance testing requirement, prior to the CTUP, was met on January 9, 2004. [NSR ATC/OP Modification 0, Amendment 3, Condition III-D-4 (12/04/06)]

4. Upon completion of the CTUP, the permittee shall conduct initial performance tests on the modified combustion turbines (EUs: A01 and A03) and associated duct burners (EUs: A02 and A04) for NOx according to the following conditions: [12.4 ATC issued 10/20/2021; 40 CFR Parts 60.4400 & 60.4405]
   a. The permittee shall conduct initial performance tests within 60 days of achieving the maximum production rate at which the source will be operated, but no later than 180 days after initial startup.
   b. Alternatively, the permittee may use the CEMS RATA procedures under 40 CFR Part 60.4405 to fulfill the requirements for performance testing under 40 CFR Part 60.8. [40 CFR Parts 60.4400 & 60.4405]

5. The Control Officer may require additional performance testing when operating conditions appear to be inadequate to demonstrate compliance with the limitations in this permit. [AQR 4.2]

F. Recordkeeping

1. The permittee shall maintain the following records on-site for reporting: [AQR12.5.2.6(d) and AQR 12.5.2.8]

General
a. The magnitude and duration of excess emissions, notifications, monitoring system performance, malfunctions, and corrective actions taken as required by 40 Part CFR 60.7;
b. The number of occurrences and the durations of each testing/tuning event, as well as the reason for the testing/tuning;

c. Emissions of any regulated NSR pollutant that increase above the PSD significant thresholds as a result of the CTUP, which shall be reported 60 days after the end of each calendar year;

Turbines, Duct Burners, and CEMS

d. Monthly, consecutive 12-month total quantity of natural gas consumed in each turbine;

e. Monthly, consecutive 12-month total quantity of natural gas consumed in each duct burner;

f. Monthly, consecutive 12-month total hours of operation of each duct burner;

g. CEMS audit results or accuracy checks, corrective actions, etc., as required by 40 CFR Part 60, Appendix F and the CEMS Quality Assurance Plan;

h. Monthly, consecutive 12-month total NOx and CO mass emissions in tons, including for startup, shutdown, and normal operations;

Fire Pump/Generators

i. Date and duration of operation of the diesel-powered fire pump and emergency generators for testing, maintenance, and nonemergency use (EUs: A05, A06, and A08);

j. Date and duration of operation of the fire pump and emergency generators for emergency use, including documentation justifying use during the emergency (EUs: A05, A06, and A08); and

Cooling Tower (EUs: A07):

k. Annual average TDS content of the cooling tower.

2. The permittee shall maintain the following records on-site: [AQR 12.5.2.6(d) & AQR 12.5.8]

Turbines, Duct Burners and CEMS

a. Hourly quantity of natural gas consumed in each turbine;

b. Hourly quantity of natural gas consumed in each duct burner;

c. Monthly heating value of natural gas;

d. Sulfur content of natural gas, as certified by the supplier in accordance with 40 CFR Part 75.11(d)(2) and 40 CFR Part 60.4365;

e. Dates, times, and duration of each startup and shutdown cycle;

f. Dates and hours of operation, with monthly totals for each turbine and, as applicable, each duct burner;

g. Startup and shutdown emissions of each stationary gas turbine for each cycle event, and annual emissions in tons per year (consecutive 12-month total);
h. The time, duration, nature, and probable cause of any CEMS downtime, and corrective actions taken;

i. CEMS audit results, RATA, corrective actions, etc, as required by 40 CFR Part 60 and the CEM QAP;

j. Each CEMS “out-of-control” period, as defined in 40 CFR Part 75, Appendix B;

k. All CEMS information required by this permit and 40 CFR Part 75, including a CEMS monitoring plan;

**Fire Pump/Generators**

l. Records of inspections and maintenance (EUs: A05, A06, and A08);

m. Records demonstrating date and interval of oil and filter change(s), inspection of air cleaners, and inspection of hoses and belts (EUs: A05 and A06) [40 CFR Part 63, Subpart ZZZZ];

n. Manufacturer’s engine specifications (EUs: A05, A06, and A08);

**Cooling Tower**

o. Daily TDS content or conductivity of cooling tower circulation water;

**Other**

p. Log of visible emission checks;

q. Certificates of representation for the designated representative and alternative designated representative that meet all requirements of 40 CFR Part 72.24;

r. Copies of all reports, compliance certifications, other submissions, and all records made or required under the Acid Rain Program;

s. Copies of all documents used to complete a permit application and any other submission under the Acid Rain Program, or to demonstrate compliance with the requirements of the Acid Rain Program;

t. Monthly calculation of emissions, with 12-month consecutive totals for each pollutant and emission unit listed in Table III-A-1; and

u. Results of all performance testing and RATA.

3. The permittee shall include in each record above, where applicable, the date and time the monitoring or measurement was taken, the person performing the monitoring or measurement, and the emission unit or location where the monitoring or measurement was performed. Each record must also contain the action taken to correct any deficiencies, when applicable. [AQR 12.5.2.6(d)]

4. Records and data required by this operating permit to be maintained by the permittee may, at the permittee’s expense, be audited at any time by a third party selected by the Control Officer. [AQR 4.1 and AQR 12.5.2.8(b)]
5. All records and logs, or a copy thereof, shall be kept on-site for a minimum of five years from the date the measurement was taken or data was entered, and shall be made available to DAQ upon request. \[AQR \text{12.5.2.6(d)}\]

6. The Control Officer reserves the right to impose additional requirements concerning records and recordkeeping for this source. \[AQR \text{12.5.2.6(d)}\]

G. Reporting

1. All report submissions shall be addressed to the attention of the Control Officer. \[AQR \text{12.5.2.8(e)(4)}\]

2. All reports shall contain a certification of truth, accuracy, and completeness by the responsible official. \[AQR \text{12.5.2.6 (d) and AQR 12.5.2.6(l)}\]

3. The permittee shall notify the Control Officer, within 15 days after startup, of the completion of the CTUP. \[AQR \text{12.5.2.6(d)}\]

4. The permittee shall submit semiannual reports to the Control Officer. \[AQR \text{12.5.2.6(d)}\]

5. The following requirements apply to semiannual reports: \[AQR \text{12.5.2.6(d)}\]
   a. The report shall include the items listed in Section III-F-1.
   b. The report shall include summaries of any permit deviations, their probable cause, and corrective or preventative actions taken.
   c. The report shall be submitted to DAQ within 30 calendar days of the reporting period’s end.

6. Regardless of the date of issuance of this permit, the permittee shall follow the schedule for the submittal of reports to the Control Officer in Table III-G-1. \[AQR \text{12.5.2.6(d)}\]

Table III-G-1: Reporting Schedule

<table>
<thead>
<tr>
<th>Required Report</th>
<th>Applicable Period</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semiannual report for 1st half of year</td>
<td>January, February, March, April, May, June</td>
<td>July 30 each year¹</td>
</tr>
<tr>
<td>Semiannual report for the 2nd half of the year and any additional annual records required</td>
<td>July, August, September, October, November, December</td>
<td>January 30 each year¹</td>
</tr>
<tr>
<td>Annual Compliance Certification</td>
<td>Calendar year</td>
<td>January 30 each year¹</td>
</tr>
<tr>
<td>Annual Emissions Inventory Report</td>
<td>Calendar year</td>
<td>March 31 each year¹</td>
</tr>
<tr>
<td>Annual Emissions Statement²</td>
<td>Calendar year</td>
<td>March 31 each year¹</td>
</tr>
<tr>
<td>Notification of Malfunctions, Startup, Shutdowns, or Deviations with Excess Emission</td>
<td>As required</td>
<td>Within 24 hours of when the permittee learns of the event</td>
</tr>
<tr>
<td>Report of Malfunctions, Startup, Shutdowns, or Deviations with Excess Emission</td>
<td>As required</td>
<td>Within 72 hours of DES notification</td>
</tr>
<tr>
<td>Deviation Report without Excess Emissions</td>
<td>As required</td>
<td>Along with semiannual reports¹</td>
</tr>
</tbody>
</table>

Prepared by Cheryl Evans
**PART 70 OPERATING PERMIT**

### Required Report

<table>
<thead>
<tr>
<th>Required Report</th>
<th>Applicable Period</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excess Emissions that Pose a Potential Imminent and</td>
<td>As required</td>
<td>Within 12 hours of when the permittee learns of</td>
</tr>
<tr>
<td>Substantial Danger</td>
<td></td>
<td>the event</td>
</tr>
<tr>
<td>Performance Testing Protocol</td>
<td>As required</td>
<td>No less than 45 days, but no more than 90 days,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>before the anticipated test date&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Performance Testing</td>
<td>As required</td>
<td>Within 60 days of test end&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>RATA Testing</td>
<td>As required</td>
<td>Within 45 days of test end&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>1</sup> If the due date falls on a Saturday, Sunday, or federal or Nevada holiday, submittals are due on the next regular business day.

<sup>2</sup> Required only for stationary sources that emit 25 tons or more of NO<sub>x</sub> and/or 25 tons or more of VOCs during a calendar year.

7. 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 4.1 and AQR 12.5.2.6(d)*]

8. The designated representative of an affected source, and of each affected unit at the source, shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Parts 72 and 75. [*40 CFR Part 72.9(f)*]

**H. Mitigation**

1. 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 CFR Parts 72–77, this Acid Rain Permit is issued to NV Energy’s Silverhawk Power Plant.

2. All terms and conditions of the permit are enforceable by DAQ and EPA under the Clean Air Act. [*40 CFR Part 72*]

3. The permittee shall comply with all the applicable requirements of the Acid Rain Permit Application in Attachment 2. [*40 CFR Part 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 years from the date of issuance unless a timely and complete renewal application is submitted to DAQ. [*40 CFR Part 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 Part 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 12.5.2.6 and 40 CFR Part 70.6(a)(4)*]

8. Where an applicable requirement of the Act is more stringent than an applicable requirement of Title IV regulations, both provisions shall be incorporated into the permit and shall be enforceable. [*40 CFR Part 70.6(a)(1)(ii)*]
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 chlorofluorcarbon or hydrochlorofluorcarbon 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 Part 82 on site. [40 CFR Part 82]

2. The permittee shall notify DAQ of a testing/tuning event no less than 24 hours prior to the event unless the agency agrees to a shorter notification time frame. [Part 70 Operating Permit Renewal Application (10/20/2020)]

VI. PERMIT SHIELD

1. Compliance with the terms contained in this permit shall be deemed compliance with the following applicable requirements (Tables VI-1 through VI-4) in effect on the date of permit issuance. [AQR 12.5.2.9]

Table VI-1: Applicable Requirements Related to Permit Shield before the CTUP

<table>
<thead>
<tr>
<th>Citation</th>
<th>Title</th>
<th>Permit Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQR Section 14.1.3, Subpart Da</td>
<td>NSPS – Electric Utility Steam Generation</td>
<td>SO2, 1.5 lbs/hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOx, 23 lbs/hr</td>
</tr>
<tr>
<td>AQR Section 14.1.40, Subpart GG</td>
<td>NSPS – Stationary Gas Turbines</td>
<td>NOx, 2.5 ppmv</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SO2, 1.5 lbs/hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.75 gr/100 scf</td>
</tr>
</tbody>
</table>
Table V-2: Streamlined Requirements Related to Permit Shield Before Project Is Completed and Units Start Operation

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Standard Value</td>
<td>Permit Limit Value</td>
<td>Is Permit Limit Equal or More Stringent?</td>
</tr>
<tr>
<td>A01/ A02</td>
<td>60.332 (GG)</td>
<td>103 ppmvd NO(_x) @ 15% O(_2) (^1)</td>
<td>2.5 ppmvd NO(_x) @ 15% O(_2)</td>
<td>103 (^1)</td>
<td>2.5</td>
<td>Yes</td>
</tr>
<tr>
<td>A03/ A04</td>
<td>60.333 (GG)</td>
<td>0.15% by volume SO(_2) @ 15% O(_2)</td>
<td>1.5 lbs/hr SO(_2) @ 15% O(_2)</td>
<td>428 (^2)</td>
<td>1.5</td>
<td>Yes</td>
</tr>
<tr>
<td>A01/ A02</td>
<td>60.333 (GG)</td>
<td>0.8% sulfur by weight (260 gr/100 scf)</td>
<td>0.75 gr/100 scf</td>
<td>260</td>
<td>0.75</td>
<td>Yes</td>
</tr>
<tr>
<td>A03/ A04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A01/ A02</td>
<td>60.43 (Da)</td>
<td>0.20 lb SO(_2)/MMBtu</td>
<td>1.5 lb/hr SO(_2)</td>
<td>106 (^2)</td>
<td>1.5</td>
<td>Yes</td>
</tr>
<tr>
<td>A03/ A04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A01/ A02</td>
<td>60.44 (Da)</td>
<td>1.6 lb NO(_x)/MW-hr</td>
<td>23 lb/hr NO(_x)</td>
<td>248 (^3)</td>
<td>23</td>
<td>Yes</td>
</tr>
<tr>
<td>A03/ A04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. This permit shield in Table VI-2 shall no longer apply after the date the CTUP are completed and the modified combustion turbines (EUs: A01/A02 and A03/A04) start operation. [Part 70 Operating Permit Significant Revision Application (12/22/2020)]

Table VI-3: Applicable Requirements Related to Permit Shield after the CTUP

<table>
<thead>
<tr>
<th>Citation</th>
<th>Title</th>
<th>Permit Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQR Section 14.1.83 Subpart KKKK</td>
<td>NSPS – Stationary Gas Turbines NO(_x), 2.5 ppmvd</td>
<td>III-(C)(1)(d)</td>
</tr>
</tbody>
</table>

3. After the date of startup of modified combustion turbines (EUs: A01/A02 and A03/A04) once the CTUP are completed, compliance with the terms contained in this permit shall be deemed compliance with the applicable requirements (Table VI-3 and Table VI-4) in effect on the date of permit issuance. [AQR 12.5.2.9]
Table V-4: Streamlined Requirements Related to Permit Shield After Project Is Completed and Units Have Started Operation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Value Comparison (in Units of the Permit Limit)</td>
<td>Standard Averaging Period</td>
<td>Permit Limit Averaging Period</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Standard Value</td>
<td>Permit Limit Value</td>
<td>Is Permit Limit Equal or More Stringent?</td>
</tr>
<tr>
<td>A01/ A02</td>
<td>60.4320 (KKKK)</td>
<td>15 ppmvd NOₓ @ 15% O₂¹</td>
<td>2.5 ppmvd NOₓ @ 15% O₂</td>
<td>15</td>
<td>2.5</td>
<td>Yes</td>
</tr>
<tr>
<td>A03/ A04</td>
<td>60.4330 (KKKK)</td>
<td>96 ppmvd NOₓ @ 15% O₂²</td>
<td>2.5 ppmvd NOₓ @ 15% O₂</td>
<td>96</td>
<td>2.5</td>
<td>Yes</td>
</tr>
</tbody>
</table>

¹ The 40 CFR Part 60 Table 1 NOₓ standard for modified turbine firing natural gas with heat input >850 MMBtu/hour.
² The 40 CFR Part 60 Table 1 NOₓ standard for turbine >30 MW operating at less than 75% of peak load.
ATTACHMENT 1 — APPLICABLE REGULATIONS

Requirements specifically identified as applicable

1. NRS, Chapter 445B.

2. Applicable AQR sections listed in the table below.

<table>
<thead>
<tr>
<th>Citation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQR 00</td>
<td>Definitions</td>
</tr>
<tr>
<td>AQR 4</td>
<td>Control Officer</td>
</tr>
<tr>
<td>AQR 5</td>
<td>Interference with Control Officer</td>
</tr>
<tr>
<td>AQR 8</td>
<td>Persons Liable for Penalties – Punishment: Defense</td>
</tr>
<tr>
<td>AQR 9</td>
<td>Civil Penalties</td>
</tr>
<tr>
<td>AQR 10</td>
<td>Compliance Schedules</td>
</tr>
<tr>
<td>AQR 12.4</td>
<td>Authority to Construct Application and Permit Requirements for Part 70 Sources</td>
</tr>
<tr>
<td>AQR 12.5</td>
<td>Part 70 Operating Permit Requirements</td>
</tr>
<tr>
<td>AQR 13.2(b)(82)</td>
<td>Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines</td>
</tr>
<tr>
<td>AQR 14.1(b)(3)</td>
<td>Subpart Da - Standards of Performance for Electric Utility Steam Generating Units</td>
</tr>
<tr>
<td>AQR 14.1(b)(40)</td>
<td>Subpart GG - Standards of Performance for Stationary Gas Turbines</td>
</tr>
<tr>
<td>AQR 14.1(b)(81)</td>
<td>Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines</td>
</tr>
<tr>
<td>AQR 14.1(b)(83)</td>
<td>Subpart KKKK - Standards of Performance for Stationary Combustion Turbines</td>
</tr>
<tr>
<td>AQR 18</td>
<td>Permit and Technical Service Fees</td>
</tr>
<tr>
<td>AQR 21</td>
<td>Acid Rain Permits</td>
</tr>
<tr>
<td>AQR 22</td>
<td>Acid Rain Continuous Emission Monitoring</td>
</tr>
<tr>
<td>AQR 25</td>
<td>Affirmative Defense for Excess Emissions due to Malfunctions, Startup, and Shutdown</td>
</tr>
<tr>
<td>AQR 26</td>
<td>Emission of Visible Air Contaminants</td>
</tr>
<tr>
<td>AQR 28</td>
<td>Fuel Burning Equipment</td>
</tr>
<tr>
<td>AQR 40</td>
<td>Prohibitions of Nuisance Conditions</td>
</tr>
<tr>
<td>AQR 41</td>
<td>Fugitive Dust</td>
</tr>
<tr>
<td>AQR 42</td>
<td>Open Burning</td>
</tr>
<tr>
<td>AQR 43</td>
<td>Odors in the Ambient Air</td>
</tr>
<tr>
<td>AQR 70</td>
<td>Emergency Procedures</td>
</tr>
<tr>
<td>AQR 80</td>
<td>Circumvention</td>
</tr>
</tbody>
</table>


4. Applicable 40 CFR parts listed in the table below.
<table>
<thead>
<tr>
<th>Citation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 CFR Part 52.21</td>
<td>Prevention of significant deterioration of air quality</td>
</tr>
<tr>
<td>40 CFR Part 52.1470</td>
<td>Identification of [state implementation] plan</td>
</tr>
<tr>
<td>40 CFR Part 60, Subpart A</td>
<td>General Provisions [NSPS]</td>
</tr>
<tr>
<td>40 CFR Part 60, Subpart Da</td>
<td>Standards of Performance for Electric Utility Steam Generating Units [NSPS]</td>
</tr>
<tr>
<td>40 CFR Part 60, Subpart GG</td>
<td>Standards of Performance for Stationary Gas Turbines [NSPS]</td>
</tr>
<tr>
<td>40 CFR Part 60, Subpart III</td>
<td>Standards of Performance for Stationary Reciprocating Internal Combustion Engines [NSPS]</td>
</tr>
<tr>
<td>40 CFR Part 60, Subpart KKKK</td>
<td>Standards of Performance for Stationary Combustion Turbines [NSPS]</td>
</tr>
<tr>
<td>40 CFR Part 60, Appendix A-4</td>
<td>Test Methods 6 Through 10B: Method 9 - Visual determination of the opacity of emissions from stationary sources</td>
</tr>
<tr>
<td>40 CFR Part 70</td>
<td>Federally Mandated Operating Permits</td>
</tr>
<tr>
<td>40 CFR Part 72</td>
<td>Permits Regulation</td>
</tr>
<tr>
<td>40 CFR Part 73</td>
<td>Sulfur Dioxide Allowance System</td>
</tr>
<tr>
<td>40 CFR Part 75</td>
<td>Continuous Emission Monitoring</td>
</tr>
<tr>
<td>40 CFR Part 82</td>
<td>Protection of Stratospheric Ozone</td>
</tr>
</tbody>
</table>

**ATTACHMENT 2—ACID RAIN RENEWAL PERMIT APPLICATION**

See next page
## Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: [ ] new  [ ] revised  [✓] for ARP permit renewal

### STEP 1
Identify the facility name, State, and plant (ORIS) code.

<table>
<thead>
<tr>
<th>Facility (Source) Name</th>
<th>State</th>
<th>Plant Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silverhawk Generating Facility</td>
<td>Nevada</td>
<td>55841</td>
</tr>
</tbody>
</table>

### STEP 2
Enter the unit ID# for every affected unit at the affected source in column "a."

<table>
<thead>
<tr>
<th>Unit ID#</th>
<th>Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>A01</td>
<td>Yes</td>
</tr>
<tr>
<td>A02</td>
<td>Yes</td>
</tr>
</tbody>
</table>

...
STEP 3

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 source or unit, as appropriate, 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 source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; 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.

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 source 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 source 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.

(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.

(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 source can hold; provided, that the number of allowances held by the source 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.

Certification

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: Dariusz Rekowski

Signature: [Signature]

Date: 10/19/2020