

Washington State Department of Ecology
Eastern Region Office
4601 North Monroe
Spokane, Washington 99205-1295

In the matter of Compliance by **Gas Transmission Northwest, LLC** Compressor Station No. 8 – Wallula)
WA with Section 70A.15.2260 RCW, Operating)
Permits for Air Contaminant Sources, and the)
applicable rules and regulations of the Department)
of Ecology)

Air Operating Permit: 25AQ-E0PD
AQPID: A0710025

To: Gas Transmission Northwest, LLC.
201 W. North River Drive, Suite 505
Spokane, WA 99201

Issuance Date: **DATE, 2025**
Effective Date: **DATE, 2025**
Expiration Date: **DATE, 2030**

Responsible Official: Timothy Woods, Operations Manager
Facility Contact: Dan Maguire, Environmental Engineer
Facility Location: 638 Lambdin Road, three miles east of Wallula Junction on U.S. Hwy 12
AQPID Number: A0710025

Legal Authority: This Air Operating Permit is issued under the authority and provisions of the Federal Clean Air Act (FCAA), (42 U.S.C. 7401, et seq.), the Washington Clean Air Act, Chapter 70A.15 Revised Code of Washington (RCW) and the Operating Permit Regulation, Chapter 173-401 Washington Administrative Code (WAC).

Hereinafter, Gas Transmission Northwest Corporation, Compressor Station No. 8 is called the permittee. The permittee is required to comply with the provisions contained within this permit.

This Renewal Air Operating Permit, DATED at Spokane, Washington, this **XX day of MONTH, 2025.**

Reviewed By:

Approved By:

Andrew Kruse, P.E.
Environmental Engineer
Eastern Region Air Quality Program

Karin Baldwin
Section Manager
Eastern Region Air Quality Program

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List of Abbreviations

Abbreviation	Definition
AOP	Air Operating Permit
BACT	Best Available Control Technology
BTU	British Thermal Units
°C	Degrees Celsius
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CO	Carbon Monoxide
dscf	Dry Standard Cubic Foot
dscf/m	Dry Standard Cubic Foot per minute
Ecology	Washington State Department of Ecology
E.I.T.	Engineer in Training
EPA	United States Environmental Protection Agency
F	Degrees Fahrenheit
FCAA	Federal Clean Air Act
ft ³	Cubic foot
gr/dscf	Grain per dry standard cubic foot
hr	Hour
ISO	International Organization for Standardization
MMBtu	Million British Thermal Units
MRRR	Monitoring, Recordkeeping, and Reporting Requirement
MVAC	Motor Vehicle Air Conditioner
N ₂	Nitrogen gas
NGG	Gas generator speed in a natural gas turbine (see explanation under section 10.18.9 of SOB)
NOC	Notice of Construction
NO _x	Oxides of Nitrogen
NSPS	New Source Performance Standard
O ₂	Oxygen
O&M	Operation & Maintenance
P.E.	Professional Engineer
PM	Particulate Matter
PM-10	Particulate Matter with aerodynamic diameter ≤ 10 micrometers
ppm	Parts per million
PSD	Prevention of Significant Deterioration
QIP	Quality Improvement Plan
RACT	Reasonably Available Control Technology
RCW	Revised Code of Washington
RM	EPA Reference Method from 40 CFR Part 60, Appendix A
SERP	Source Emission Reduction Plan
scfm	Standard Cubic Feet per Minute
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
SoLoNO _x	sustainable technology that reduces NO _x and CO emissions in solar turbines
TAP	Toxic Air Pollutant
TPY	Tons per Year
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound
WAC	Washington Administrative Code
yr	year

All information required throughout this permit is to be submitted to Ecology, EPA, or both as specified by the applicable requirement, at the following addresses:

Air Quality Program
Department of Ecology
4601 North Monroe St.
Spokane, WA 99205-1295

U.S. EPA Region 10
Office of Air, Waste and Toxics (AQT-150)
1200 Sixth Avenue, Suite 155
Seattle, WA 98101-3140

1) Standard Conditions

a) Permit Shield

- i. Compliance with the terms and conditions of this permit will be deemed compliance with those applicable requirements that are specifically included and identified in this permit as of the date of permit issuance.
- ii. The permit shield will not apply to any insignificant emissions unit or activity designated under WAC 173-401-530.

[WAC 173-401-530(3)], [WAC 173-401-640(1)]

b) Enforceability

All terms and conditions of this permit are enforceable by the EPA and citizens unless specifically designated as state-only enforceable.

[WAC 173-401-625]

c) Permit Fees

The permittee must pay fees as a condition of this permit in accordance with Ecology's fee schedule. Failure to pay fees in a timely fashion will subject the permittee to civil and criminal penalties as prescribed in Chapter 70A.15 RCW. Ecology may revoke this operating permit if the permit fees are not paid, per WAC 173-401-930(3).

[WAC 173-401-620(2)(f), 930(3)], [RCW 70A.15.2270]

d) Permit Continuation

This permit and all terms and conditions contained therein, including any permit shield provided under WAC 173-401-640, will not expire until the renewal permit has been issued or denied if a timely and complete application has been submitted. An application shield granted pursuant to WAC 173-401-705(2) will remain in effect until the renewal permit has been issued or denied if a timely and complete application has been submitted.

[WAC 173-401-620(2)(j)]

e) Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

[WAC 173-401-620(2)(d)]

f) Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, the permittee must allow Ecology, EPA, or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where a chapter 401 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. As authorized by WAC 173-400-105 and the FCAA, sample or monitor, at reasonable times, substances, or parameters for the purpose of assuring compliance with this permit or other applicable requirements.
 - A. Ecology may require the permittee to conduct stack testing and/or ambient air monitoring and report the results to Ecology.
 - B. Ecology may conduct or require that a test be conducted using approved methods from 40 CFR parts 51, 60, 61 and 63 (in effect on February 20, 2001), or Ecology's Source Test Manual – Procedures for Compliance Testing. The permittee will be required to provide platform and sampling ports. Ecology must be allowed to obtain a sample from any emissions unit. The permittee will be given the opportunity to observe the sampling and to obtain a sample at the same time.
- v. No person will obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties.
- vi. Nothing in this condition will limit the ability of EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the FCAA.

[WAC 173-401-630(2)], [WAC 173-400-105(2),(4)], [RCW 70A.15.2500], [PSD-01-06 1st amendment, Issued 11/14/02, Approval Condition 16], [Order No. 02AQER-3949 2nd amendment, Issued 11/17/04, Approval Conditions 3.6.10, 3.10.3], [Order No. 08AQER-249, Issued 4/09/2008 Approval Condition 9.3], [40 CFR 60.8(e)]

g) Duty to Comply

The permittee must comply with all conditions of this chapter 173-401 operating permit. Any permit noncompliance constitutes a violation of chapter 70A.15 RCW and, for federally enforceable provisions, a violation of the FCAA. Such violations are grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.

[WAC 173-401-620(2)(a)], [PSD-01-06 1st amendment, Issued 11/14/02, Approval Condition 15], [Order No. 02AQER-3949 2nd amendment, Issued 11/17/04, Approval Conditions, 3.10.4, 3.10.9, 3.10.10, 3.10.10.1, 3.10.10.2], [Order No. 08AQER-249, Issued 4/09/08, Approval Conditions 9.7, 9.8, 9.10, 9.11, 9.12]

h) Duty to Provide Information

The permittee must furnish to Ecology, within a reasonable time, any information that Ecology 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 must also furnish to Ecology copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to Ecology along with a claim of confidentiality. Ecology will maintain confidentiality of such information in accordance with RCW 70A.15.2510.

No person will make any false material statement, representation, or certification in any form, notice, or required report. No person will give inaccurate information from any required monitoring device or method.

[WAC 173-401-620(2)(e)], [WAC 173-400-105(7), (8)]

i) Duty to Supplement or Correct Application

The permittee, upon becoming aware that any relevant facts were omitted, or incorrect information was submitted in the permit application, must promptly submit such supplementary facts or corrected information. The permittee must also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

[WAC 173-401-500(6)]

j) Need to Halt or Reduce Activity not a Defense

It will not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

[WAC 173-401-620(2)(b)], [Order No. 02AQER-3949 2nd amendment, Issued 11/17/04, Approval Condition 3.10.5], [Order No. 08AQER-249, Issued 04/09/08, Approval Condition 9.14]

k) Excess Emissions Due to an Emergency

The permittee may seek to establish that noncompliance with a technology-based¹ emission limitation under this permit was due to an emergency.² To do so, the permittee must demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

- i. An emergency occurred and the permittee can identify the cause(s) of the emergency,
- ii. The permitted facility was being properly operated at the time of the emergency,
- iii. During the emergency period the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit, and
- iv. The permittee submitted notice of the emergency to Ecology within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. The notice must be directed to appropriate air quality personnel at Ecology's Eastern Regional Office using the most recent contact information.

[WAC 173-401-645]

l) Unavoidable Excess Emissions

- i. WAC 173-400-107 is no longer in effect, 173-400-108 and 173-400-109 are now effective.
- ii. WAC 173-400-108 (State-only requirement not federally enforceable).
 - A. Notify the permitting authority.
 - (a) When excess emissions represent a potential threat to human health or safety, the owner or operator must notify the permitting authority

¹ Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain a health-based air quality standard.

² An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of this source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency will not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

by phone or electronic means as soon as possible, but not later than 12 hours after the excess emissions were discovered.

(b) For all other excess emissions, the owner or operator must notify the permitting authority in a report as provided in 1(l)(ii)(B).

B. Report – The owner or operator must report all excess emissions to the permitting authority.

(a) To claim emissions as unavoidable under WAC 173-400-109, the report must contain the information in 1(l)(ii)(B)(c).

(b) Chapter 173-401 WAC source: As provided in WAC 173-401-615(3) and 1(l)(ii)(B)(c).

(c) For an excess emission event that the owner or operator claims was unavoidable under WAC 173-400-109, the report must also include the following information:

(i) Properly signed contemporaneous records or other relevant evidence documenting the owner or operator's actions in response to the excess emissions event.

(ii) Information on whether installed emission monitoring and pollution control systems were operating at the time of exceedance. If either or both systems were not operating, information on the cause and duration of the outage.

(iii) All additional information required under WAC 173-400-109(5) supporting the claim that the excess emissions were unavoidable.

[WAC 173-400-108]

iii. WAC 173-400-109 (State-only requirement not federally enforceable).

A. Excess emissions determined to be unavoidable under the procedures and criteria in this section are violations of the applicable statute, rule, permit, or regulatory order.

(a) The permitting authority determines whether excess emissions are unavoidable based on the information supplied by the source and the criteria in 1(l)(iii)(E).

(b) Excess emissions determined by the permitting authority to be unavoidable are:

(i) A violation subject to WAC 173-400-230 (3), (4) and (6).

(ii) Not subject to civil penalty under WAC 173-400-230(2).

- B. The permittee will have the burden of proving to the permitting authority in an enforcement action that excess emissions were unavoidable. This demonstration must be a condition to obtaining relief under 1(l)(iii)(E).
- C. This section does not apply to an exceedance of an emission standard in 40 CFR Parts 60, 61, 62, 63, and 72, or a permitting authority's adoption by reference of these federal standards.
- D. Excess emissions that occur due to an upset or malfunction during a startup or shutdown event are treated as an upset or malfunction under 1(l)(iii)(E).
- E. Excess emissions due to an upset or malfunction will be considered unavoidable provided the permittee reports as required by WAC 173-400-108 and adequately demonstrates to the permitting authority that:
 - (a) The event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition.
 - (b) The event was not of a recurring pattern indicative of inadequate design, operation, or maintenance.
 - (c) When the operator knew or should have known that an emission standard or other permit condition was being exceeded, the operator took immediate and appropriate corrective action in a manner consistent with safety and good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action. Actions taken could include slowing or shutting down the emission unit as necessary to minimize emissions.
 - (d) If the emitting equipment could not be shut down during the malfunction or upset to prevent the loss of life, prevent personal injury or severe property damage, or to minimize overall emissions, repairs were made in an expeditious fashion.
 - (e) All emission monitoring systems and pollution control systems were kept operating to the extent possible unless their shutdown was necessary to prevent loss of life, personal injury, or severe property damage.
 - (f) The amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent possible.
 - (g) All practicable steps were taken to minimize the impact of the excess emissions on ambient air quality.

m) Reporting

i. Monthly Deviation Reports

The permittee must report all deviations from permit conditions and must include the following information: the time the deviation occurred, the duration of the deviation, the magnitude of the deviation in relation to the applicable limit, the probable cause of the deviation, and any corrective actions or preventive measures taken. Deviations must be reported to Ecology at the address included in this permit.

- A. Deviations which represent a potential threat to human health or safety, or which the permittee believes to be unavoidable (1(l)) must be reported as soon as possible, but in no case later than 12 hours after the deviation is discovered.
- B. Excess emissions due to emergency (1(k)), or which the source believes unavoidable (1(l)), and does not meet the criteria 1(m)(i)(i), must be reported within two working days of the event.
- C. All other deviations must be reported no later than 30 days after the end of the month during which the deviation is discovered.
- D. For any month during which no permit deviations are discovered, the permittee must submit a report no later than 30 days following the end of the month stating that no deviations were observed during that period.

Upon request by Ecology, the permittee must submit a full written report including further details regarding the known causes, the corrective actions taken, and the preventative measures taken to minimize or eliminate the chance of recurrence. The source must maintain a contemporaneous record of all deviations. Responsible official certification in accordance with Condition 1(m)(v) of monthly deviation reports must be included in each semi-annual monitoring report covering all deviations reported during the previous six-month period.

[WAC 173-401-615(3)(b)], [WAC 173-400-108, WAC 173-400-109]

ii. Semi-Annual Monitoring Reports

The permittee must submit reports of any required monitoring (i.e., Monitoring Recordkeeping and Reporting identified in section 3) at least once every six months. Six-month periods will be from January 1st through June 30th, and from July 1st through December 31st.

- A. Semi-annual monitoring reports will be due no later than 45 days following the end of each six-month period.

- B. All instances of deviations from permit requirements must be clearly identified in such reports.
- C. The report must include identification of all months during which no deviations occurred.
- D. All required reports must be certified by a responsible official consistent with Condition 1(m)(vi).

[WAC 173-401-615(3)(a)]

iii. Compliance Certifications

The permittee must submit a certification of compliance with permit terms and conditions at least once per calendar year. Certifications must be submitted no later than 45 days following the end of the certification period (calendar year). Ecology may require that compliance certifications be submitted more frequently for those emission units not in compliance with permit terms and conditions, or where more frequent certification is specified in the applicable requirement.

[WAC 173-401-630(5)(a)], [WAC 173-401-630(1)]

- A. The certification must describe and include the following:
 - (a) The permit term or condition that is the basis of the certification,
 - (b) The current compliance status,
 - (c) Whether compliance was continuous or intermittent, and
 - (d) The methods used for determining compliance, currently and over the reporting period, consistent with WAC 173-401-615(3)(a).

[WAC 173-401-630(5)(c)]

- B. All compliance certifications must be submitted to Ecology and EPA Region 10 at the respective addresses included in this permit.

[WAC 173-401-630(5)(d)]

- C. The permittee need not certify compliance for insignificant emission units or activities if there is no permit requirement for testing, monitoring, recordkeeping or reporting.

[WAC 173-401-530(2)(d)]

- D. All compliance certifications must include certification by a responsible official in accordance with Condition 1(m)(vi).
- E. For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any requirement of this permit, nothing will preclude the use, including the exclusive use,

of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test had been performed.

[40 CFR 52.33(a)], [40 CFR 60.11(g)]

iv. Emissions Inventory

The permittee must submit an inventory of actual emissions from the source for each calendar year. The inventory must include segmented stack and fugitive emissions of TSP, PM-10, SO₂, CO, NO_x, lead, and VOC's, and must be submitted no later than April 15th of the following year. The source must maintain records of information necessary to substantiate any reported emissions, consistent with the averaging times for the applicable standards. Emissions inventories must be sent to Ecology at the address included in this permit.

[WAC 173-400-105(1)]

v. Greenhouse Gas Reporting

If the permittee emits 10,000 metric tons of greenhouse gases (GHGs) or more per calendar year, GHGs are required to be reported to Ecology. (Note: WAC 173-441-030(5) details reporting requirements for facilities which are subject to the requirements but fall below reporting thresholds). All requests, notifications, and communications to Ecology regarding GHGs, other than submittal of the annual GHG report, must be submitted to:

Greenhouse Gas Report
Air Quality Program
Department of Ecology
PO Box 47600
Olympia, WA 98504-7600

Annual GHG reports must be submitted through Ecology's GHG Reporting webpage.

Reports must meet the requirements of WAC 173-441-050 and include the annual emissions of the GHGs listed in WAC 173-441-040 from source categories listed in WAC 173-441-120. The annual GHG report must be submitted electronically in accordance with WAC 173-441-050 and WAC 173-441-060, in a format specified by Ecology. The GHG report is due to Ecology by March 31st of each year for the previous calendar year.

If the facility emits 10,000 metric tons of GHGs or more per calendar year, the permittee must develop a written GHG monitoring plan. The plan must be revised, as needed, to reflect changes in processes, monitoring instruction, and

quality assurance procedures; or to improve procedures for the maintenance and repair of monitoring systems to reduce the frequency of monitoring equipment downtime.

[WAC 173-441]

vi. Submittals

Reports, test data, monitoring data, notifications, certifications, and applications (including requests for renewal) must be submitted to Ecology at the address included in this permit. Ecology may specify a different or additional submittal format in accordance with WAC 173-400-105(1), such as electronic submittal(s). Any application form, report, or compliance certification submitted to Ecology pursuant to this permit must contain certification of truth, accuracy, and completeness by a responsible official. All certifications must state that *“based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete”*. The permittee must promptly, upon discovery, report to Ecology any material error or omission in these records, reports, plans or other documents.

[WAC 173-401-520], [WAC 173-401-500(6)], [Order No. 08AQ-E249, Issued 04/09/08, Approval Condition No. 6]

n) Severability

If any provision of this permit, or application of any provision of this permit, is held to be invalid, all unaffected provisions of the permit will remain in effect and be enforceable.

[WAC 173-401-620(2)(h)], [RCW 70A.15.9004], [Order No. 02AQER-3949 2nd amendment, Issued 11/17/04, Approval Condition 3.10.11]; [Order No. 08AQ-E249, Issued 04/09/08, Approval Condition No. 9.13]

o) Administrative Permit Amendments

- i. An administrative permit amendment is a permit revision that:
 - A. Corrects typographical errors within the permit,
 - B. Identifies a change in the name, address, or phone number of any person identified in the permit, or provides for a similar minor administrative change at the source,
 - C. Requires more frequent monitoring or reporting by the permittee,
 - D. Allows for a change in ownership or operational control of a source where the permitting authority has determined that no other change in the permit is necessary, provided that a written agreement containing a

specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to Ecology,

- E. Incorporates into the permit the terms, conditions, and provisions from orders approving notice of construction applications processed under an EPA-approved program, provided that such a program meets procedural requirements substantially equivalent to the requirements of WAC 173-401-700, 173-401-725, and 173-401-800 that would be applicable to the change if it were subject to review as a permit modification, and compliance requirements substantially equivalent to those contained in WAC 173-401-600 through 173-401-650.
- ii. The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.
- iii. The permitting authority will, upon taking final action granting a request for an administrative permit amendment, allow coverage by the permit shield in WAC 173-401-640 for administrative permit amendments made pursuant to condition 1(o)(i)(v) above.

[WAC 173-401-720]

p) Permit Actions

This operating permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[WAC 173-401-620(2)(c)]

q) Reopening for Cause

- i. Ecology will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:
 - A. Additional requirements under the FCAA become applicable to a major source three or more years prior to the expiration date of this permit. Such a reopening must be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j).
 - B. Ecology or the Administrator determines that this permit contains a material mistake, or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

- C. Ecology or the Administrator determines that the permit must be revised or revoked to ensure compliance with the applicable requirements.
- ii. Proceedings to reopen and issue this permit will follow the same procedures as apply to initial permit issuance and will affect only those parts of this permit for which cause to re-open exists. Such reopening must be made as expeditiously as practicable.
- iii. Re-openings must not be initiated before a notice of intent to reopen is provided to the permittee by Ecology at least 30 days in advance of the date that this permit is to be reopened, except that Ecology may provide a shorter period of time in the case of an emergency.
- iv. All permit conditions remain in effect until such time as Ecology takes final action.

[WAC 173-401-730]

r) Off-Permit Changes

The permittee is allowed to make certain changes that are not specifically addressed or prohibited by this permit without a permit revision. All such changes must meet the following conditions:

- i. The proposed changes must not weaken the enforceability of any existing permit condition.
- ii. Each such change must meet all applicable requirements and must not violate any existing permit term or condition.
- iii. Before or contemporaneously with making the permit change, the permittee must provide written notice to Ecology and EPA Region 10 at the respective addresses included in this permit. Such written notice must describe each such change, including the date, any change in emissions or pollutants emitted, and any applicable requirements that would apply as a result of the change.
- iv. The change must not qualify for the permit shield under Condition 1(a).
- v. The permittee must keep a record of all changes that result in emissions of any regulated air pollutant subject to any applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes. The record must reside at the permitted facility.
- vi. A source making a change under this section must comply with the preconstruction review requirements established pursuant to Condition 1(t).

[WAC 173-401-724]

s) Changes not Requiring Permit Revisions

- i. Section 502(b)(10) changes

The permittee is authorized to make section 502(b)(10) changes, as defined in WAC 173-401-200(30), without a permit revision, providing the conditions included below are met. The permit shield as described in Condition 1(a) will not apply to any change made pursuant to this paragraph.

- A. The proposed changes are not Title I (FCAA) modifications.
- B. The proposed changes do not result in emissions which exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions.
- C. The proposed changes do not alter permit terms that are necessary to enforce limitation on emissions from units covered by the permit.
- D. The facility provides Ecology and EPA with written notification at least seven days prior to making the proposed changes except that written notification of a change made in response to an emergency must be provided as soon as possible after the event.
 - (a) The written notification must include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

ii. Changes related to Emissions trading under an emissions cap

Pursuant to Condition 1(s)(i), the permittee is authorized to trade increases and decreases in emission in the permitted facility, where the Washington state implementation plan provides for such emissions trades without requiring a permit revision. This provision is available in those cases where the permit does not already provide for such emissions trading. Such changes will be subject to the following:

- A. The written notification required under Condition 1(s)(i)(iv) must include such information as may be required by the provision in the Washington SIP authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which the source will comply using the emissions trading provisions of the Washington SIP, and the pollutants emitted subject to the emissions trade. The notice must also refer to the provisions with which the source will comply in the applicable implementation plan and that provide for the emissions trade. The notification must state how any increases or decreases in emissions will comply with the terms and conditions of the permit. (The permit shield described under Condition 1(a) will extend to terms and conditions that allow such increases and decreases.)

- B. The permit shield described in Condition 1(a) will not extend to any change made under this paragraph. Compliance with the permit requirements that the source will meet using the emissions trade will be determined according to requirements of the applicable implementation plan authorizing the emissions trade.
- C. Upon the request of the permit applicant, Ecology will issue permits that contain terms and conditions, including all terms required under WAC 173-401-600 through 173-401-630 to determine compliance, allowing for the trading of emissions increases and decreases in the chapter 173-401 WAC source solely for the purpose of complying with a federally enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. The permit applicant must include in its application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The emissions trading provision will not be applied to any emissions units for which emissions are not quantifiable or for which there are no replicable procedures to enforce the emissions trades. The permit will also require compliance with all applicable requirements.
- D. A source making a change under this section must comply with applicable preconstruction review requirements established pursuant to Condition 1(t).
- E. No permit revision will be required, under any approved economic incentives, marketable permits, and other similar programs or processes for changes that are provided for in this permit, such as emissions trading.

[WAC 173-401-722], [WAC 173-401-620(2)(g)]

t) New Source Review

The permittee must not construct new sources or make modifications required to be reviewed under WAC 173-400-110, WAC 173-400-113, 173-400-720, or WAC 173-460 before the permittee obtains written final approval from Ecology in accordance with those regulations, pays the appropriate fees required by WAC 173-455-120, and pays the cost of public notice described in WAC 173-400-171.

[WAC 173-400-110], [WAC 173-400-113], [WAC 173-400-116], [WAC 173-400-171], [WAC 173-455-120], [WAC 173-400-720], [WAC 173-460], [RCW 70A.15.2210]

u) Replacement or Substantial Alteration of Emission Control Technology

Prior to replacing or substantially altering emission control technology subject to review under WAC 173-400-114, the permittee must file for and obtain approval from Ecology

according to that regulation. The permittee must pay the appropriate fees required by WAC 173-455-100(4)(a) prior to commencing construction.

[WAC 173-455-100], [WAC 173-400-114], [RCW 70A.15.2220]

v) Operational Flexibility

- i. In the event that an emission unit is not operated during a period equal to or greater than the monitoring period designated, no monitoring is required. Recordkeeping and reporting must note the reason why and length of time that the emission unit was not operated.
- ii. The permittee did not propose any further alternative operating scenarios.

[WAC 173-401-650]

w) Permit Appeals

This permit or any conditions in it may be appealed only by filing an appeal with the pollution control hearings board and serving it on the permitting authority within thirty days of receipt pursuant to RCW 43.21B.310. This provision for appeal in this section is separate from and additional to any federal rights to petition and review under § 505(b) of the FCAA.

The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. “Date of receipt” is defined in RCW 43.21B.001(2).

To appeal you must do all of the following within 30 days of the date of receipt of this permit:

- i. File your appeal and a copy of this permit with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- ii. Serve a copy of your appeal and this permit on Ecology in paper form – by mail or in person (see addresses below). E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

Street Addresses

Department of Ecology
Appeals Processing Desk
300 Desmond Drive SE
Lacey, WA 98503

Pollution Control Hearings Board

Mailing Addresses

Department of Ecology
Attn: Appeals Processing Desk
PO Box 47608
Olympia, WA 98504-7608

Pollution Control Hearings Board

Street Addresses

1111 Israel Road SW Ste. 301
Tumwater, WA 98501

Mailing Addresses

PO Box 40903
Olympia, WA 98504-0903
Pchb-shbappeals@elaho.wa.gov

Address and Location Information

[WAC 173-401-620(2)(i)]

x) Federal Chlorofluorocarbons (CFC) Requirements – Title VI of the FCAA

- i. The permittee must comply with the following standards for recycling and emissions reductions pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in subpart B.
 - A. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
 - B. Equipment used during the maintenance, service, repair, or disposal must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
 - C. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - D. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. (“MVAC-like appliance” is defined at 40 CFR 82.152.)
 - E. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - F. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added. The owner/operator must keep records of refrigerant purchased and added to such appliances in cases where owners add their own refrigerant. Such records must indicate the date(s) when refrigerant is added pursuant to 40 CFR 82.166.
 - G. Persons conducting maintenance, service, repair, or disposal of appliances must follow the prohibitions pursuant to 40 CFR 82.154.
 - H. Person performing maintenance, service, repair, or disposal of appliances must certify to the Administrator that such person has acquired certified recovery of recycling equipment pursuant to 40 CFR 82.162.

- ii. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR 82, Subpart A – Production and Consumption Controls.
- iii. If the permittee performs a service on motor (fleet) vehicles and when this service involves ozone depleting substance refrigerant in the MVAC, the permittee is subject to all applicable requirements as specified in 40 CFR 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- iv. The permittee will be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program promulgated pursuant to 40 CFR 82, Subpart G – Significant New Alternative Policy Program.

[40 CFR 82], [RCW 70A.15.6410], [RCW 70A.15.6420]

y) Reasonably Available Control Technology (RACT)

Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance or renewal will be considered RACT for the purpose of permit issuance or renewal. RACT determinations under section 8, chapter 252, Laws of 1993 must be incorporated into an operating permit as provided in WAC 173-401-730.

[WAC 173-401-605(3)], [RCW 70A.15.2230]

z) Compliance Schedules

The permittee must continue to comply with applicable requirements with which it is currently in compliance. The permittee must meet applicable requirements on a timely basis that become effective during the permit term.

[WAC 173-401-510(2)(h)(iii)(A)], [WAC 173-401-510(2)(h)(iii)(B)]

aa) Record Keeping

- i. The permittee must keep records of required monitoring information that includes, where applicable, the following:
 - A. The date, place, and time of the sampling or measurements.
 - B. The date(s) analyses were performed.
 - C. The company or entity that performed the analyses.
 - D. The analytical techniques or methods used.
 - E. The results of such analyses.
 - F. The operating conditions as existing at the time of sampling or measurement.

[WAC 173-401-615(2)(a)]

- ii. The permittee must keep records describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[WAC 173-401-615(2)(b)]

- iii. The permittee must retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings from continuous monitoring instrumentation, and copies of all reports required by this permit.

[WAC 173-401-615(2)(c)]

- iv. All required recordkeeping must be available to Ecology in accordance with Condition 1(f).

[WAC 173-401-630(2)(b)]

bb) General Obligation

Nothing in this permit will alter or affect the following:

- i. The provisions of section 303 of the FCAA (emergency orders), including the authority of EPA under that section.
- ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.
- iii. The applicable requirements of the acid rain program, consistent with section 408(a) of the FCAA.
- iv. The ability of EPA to obtain information from a source pursuant to section 114 of the FCAA.
- v. The ability of Ecology to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in chapter 252, Laws of 1993.

[WAC 173-401-640(4)], [Order No. 02AQER-3949, 2nd Amendment, issued 11/17/04 Approval Condition 3.10.4]

cc) Permit Renewal and Expiration

This permit is issued for a fixed term of five years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete

renewal application (as outlined in WAC 173-401-510) is submitted at least 12 months, but no greater than 18 months prior to the date of permit expiration.

A complete renewal application is due no later than DATE, 2029.

Upon receipt of a timely and complete application for renewal, this source may continue to operate subject to final action by Ecology on the renewal application. This allowance will cease to apply if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in writing by Ecology, any additional information identified as being needed to process the application. The application must be sent to Ecology at the address included in this permit.

[WAC 173-401-610; 173-401-710]

dd) Demolition and Renovation (asbestos)

Prior to, during and after conducting any activity to which 40 CFR 61, Subpart M – National Emission Standard for Asbestos, applies, the permittee must comply with the requirements of that rule. Such activities include notification, demolition, renovation, asbestos stripping or removal, installing or reinstalling insulation, manufacturing of certain items, spraying of certain materials, constructing roadways of certain materials, or disposal.

[40 CFR 61, Subpart M], [WAC 173-400-075(1)]

2. Applicable Requirements

Until this permit expires, is modified, or revoked, this permittee is authorized to operate the air emission units and processes outlined in Sections 2(a) through 2(b). These emission units and processes are subject to the conditions included in Sections 2(a), through 2(b), to the MRRR's listed in Section 3, and to other terms and conditions specified in this permit.

The column entitled **Description** in each table contains only a summary/paraphrase of the condition, emission standard or work practice. The condition, emission standard, or work practice itself is the enforceable requirement and must be referenced for actual language.

Testing Requirements

Although there are many conditions with no on-going testing requirements, Ecology retains the authority to conduct or require that testing be conducted at the facility with respect to these conditions per WAC 173-400-105(4). Identification of the appropriate test method is necessary to make emission limits fully enforceable. Where the

underlying applicable requirement does not specify the test method, Ecology has done so in this permit.

[WAC 173-401-615(1)(a)], [WAC 173-401-630(1)], [WAC 173-400-105(4)]

a) Facility Wide

This section is applicable and enforceable with respect to all emission units source wide, including those emission units in Sections 2(b) through 2(e). Monitoring, recordkeeping, and reporting requirements in this section do not apply to insignificant emission units. Condition numbers denoted with an asterisk indicate that streamlining of a less stringent requirement has taken place and is described in section 10.17 of the Statement of Basis.

TABLE 2(a) Source-Wide Applicable Requirements

Condition Number	Condition or Emission Standard	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(a)(i)	WAC 173-400-040(2), 10/06/16 WAC 173-400-040(2), 3/15/25	F S	Visible emissions shall not exceed 20% opacity for more than 3 minutes in any one hour.	RM9A	5M
2(a)(ii)	WAC 173-400-060, 3/15/25	S	General process units are required to meet all applicable provisions of WAC 173-400-040 and emissions of particulate material from any operation shall not exceed 0.1 grain/dscf of exhaust gas.	RM5	5M
2(a)(iii)	WAC 173-400-040(3), 3/15/25		Permittee shall not cause or allow the emission of particulate matter from any source to be deposited beyond the property line in sufficient quantity to interfere unreasonably with	None	3M

Condition Number	Condition or Emission Standard	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			the use and enjoyment of the property upon which the material is deposited.		
2(a)(iv)	WAC 173-400-040(9)(a), 2/24/20	F	Permittee shall take reasonable precautions to prevent fugitive dust from becoming airborne and must operate the facility so as to minimize fugitive dust emissions.	None	5M
	WAC 173-400-040(9)(a), 3/15/25	S			
2(a)(v)	WAC 173-400-040(4), 3/15/25	S	Permittee shall take reasonable precautions to prevent the release of fugitive emissions.	None	5M
2(a)(vi)	WAC 173-400-040(5), 3/15/25 Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04 Approval Condition 3.10.1	S	Any person who shall cause or allow the generation of any odor from any source or activity which may unreasonably interfere with any other property owner's use and enjoyment of their property must use recognized good practice and procedures to reduce these odors to a reasonable minimum.	None	3M
2(a)(vii)	WAC 173-400-040(6), 2/24/20	F	Permittee shall not cause or allow the emission of any air	None	3M

Condition Number	Condition or Emission Standard	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
	WAC 173-400-040(6), 3/15/25	S	contaminant from the facility if it is detrimental to the health, safety, or welfare of any person, or causes damage to property or business.		
2(a)(viii)	WAC 173-400-040(8), 2/24/20 WAC 173-400-040(8), 3/15/25	F S	No person shall conceal or mask an emission of an air contaminant.	None	1M
2(a)(ix)	WAC 173-400-200(2), 10/3/14 WAC 173-400-200(2), 2/10/05	F S	No use of excess stack height or dispersion techniques shall be used to meet ambient air quality standards or prevention of significant deterioration (PSD) increments.	None	1M
2(a)(x)	WAC 173-400-205, 6/02/95 WAC 173-400-205, 3/22/91	F S	No varying of emissions according to atmospheric conditions or ambient concentrations, except as directed according to air pollution episode regulations.	None	1M
2(a)(xi)	RCW 70A.15.1070	S	Unlawful for any person to cause air pollution or permit it to be caused in violation of this chapter, or of any ordinance,	None	1M

Condition Number	Condition or Emission Standard	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			resolution, rule or regulation validly promulgated hereunder.		
2(a)(xii)	Chapter 173-425 WAC – Outdoor Burning, Order No. 08AQER-249, Issued 4/09/2008 Approval Condition 9.6	F	Open burning is subject to restrictions.	None	2M
2(a)(xiii)	WAC 173-400-040(1), 2/24/20 WAC 173-400-040(1), 3/15/25 70A.15.2230	F S	All emission units are required to use reasonably available control technology (RACT)	None	4M
2(a)(xiv)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04 Approval Condition 3.8.4	F	Permittee shall provide notification to Ecology of any complaints within 3 days	None	3M

b) Compressor Unit 8A

TABLE 2(b) – The following applicable requirements apply to Compressor Unit 8A (Solar Titan SoLoNOx Natural Gas-Fired Turbine, 19,500 hp)

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(b)(i)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04	F	Opacity from turbine and auxiliary generator stacks shall not exceed 5% (6-minute average)	RM9	5M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
	Approval Condition 3.5.1				
2(b)(ii)	PSD-01-06 1 st Amendment, Issued 11/14/02 Approval Conditions 1, 4 Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Conditions 3.1.1, 3.4.4, 3.4.5, 3.4.6 40 CFR 60.7(b), 60.8(b), (c), (d), (f), 60.335(b), 60.335(c)(1)	F	NOx emissions from the turbine controlled by dry low-NOx control NOx emissions shall be ≤ 25.0 ppm (hourly average at 15% O ₂ ambient temperature $\geq 0^{\circ}\text{F}$ Or ≤ 42.0 ppm (hourly average ambient temperature $< 0^{\circ}\text{F}$) Or 0.334 lb/mscf for startup/shutdown/step to idle/load change conditions; all limits corrected to 15% O ₂ on a one-hour average NOx emissions shall not exceed 88.0 tons per year	RM20	7M, 8M, 9M, 10M
2(b)(iii)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Conditions 3.1.2, 3.4.1, 3.4.2, 3.6.7	F	CO emissions from the turbine controlled by lean pre-mix combustion and good combustion practice. CO emissions shall be limited to 50 ppm _{dv} (at 15% O ₂ , 1-hour average) when the turbine is operated at ranges between 92-100% NGG and the ambient temperature is between 0° and 100° F 100 ppm _{dv} (at 15% O ₂ , 1-hour average) when the turbine is operated	RM10	7M, 8M, 9M, 10M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			between 92-100% NGG and the ambient temperature is between -40° F and 0° F		
2(b)(iv)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Condition 3.4.3	F	CO emissions from the turbine shall not exceed 93.3 tons per year	None	6M
2(b)(v)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Conditions 3.1.3, 3.4.9, 3.6.7	F	Particulate Matter: PM ₁₀ emissions shall be controlled by exclusive use of pipeline quality natural gas and good combustion practice PM ₁₀ emissions shall be limited to 1.2 lb/hr (filterable and condensable), 1- hour average, and 4.4 tons per year (12-month rolling average)	RM5 and RM201 or RM202	6M, 8M, 9M
2(b)(vi)	Order No. 02AQER-3949, 2 nd Amendment Issued 11/17/04, Approval Conditions 3.1.4, 3.4.7, 3.6.7	F	SO ₂ emissions shall be controlled by exclusive use of pipeline quality natural gas and good combustion practice Emissions of SO ₂ shall not exceed 0.5 lb/hour (1-hour average) or 1.9 tons per year (12-month rolling average)	RM20 and ASTM D 4084-94, 1072-90	6M, 10M
2(b)(vii)	40CFR 60.333(a)	F	SO ₂ emissions from the turbine exhaust shall not exceed 0.015% by	RM20 and ASTM D	10M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			volume at 15% O ₂ on a dry basis	4084-94, 1072-90	
2(b)(viii)	40CFR 60.333(b)	F	No stationary gas turbine shall burn any fuel containing total sulfur in excess of 0.8% by weight (8000 ppmw)	None	10M
2(b)(ix)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Conditions 3.4.8, 3.6.7	F	VOC emissions from the turbine shall not exceed 1.4 tons per year (12-month rolling time period)	RM25A or RM18	6M
2(b)(x)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Condition 3.3.2	F	The turbine must operate in SoLoNO _x mode for at least 50% of the unit's operating time	None	10M
2(b)(xi)	PSD-01-06 1 st Amendment Issued 11/14/02, Approval Conditions 1, 6 Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Condition 3.3.3 40 CFR 60.11(d)	F	Good combustion control will be utilized in order to minimize emissions at all times – The Solar Titan Combustion Turbine shall be fueled only by pipeline quality natural gas	None	4M, 10M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(b)(xii)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Condition 3.1.1 (BACT for NO _x)	F	NO _x emissions shall be controlled by the use of dry low NO _x control (SoLoNO _x)	None	4M
2(b)(xiii)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Condition 3.1.2 (BACT for CO)	F	CO emissions shall be controlled by use of lean pre-mix combustion and good combustion practice	None	4M
2(b)(xiv)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval Conditions 3.1.3, 3.1.4, 3.2.1 (BACT for PM-10, SO ₂ , TAP's)	F	Emissions of PM-10, SO ₂ , and TAP's shall be controlled by exclusive use of pipeline quality natural gas and good combustion practice	None	10M
2(b)(xv)	40 CFR 60.7(a)(4)	F	Any modification to plant or operating procedures shall be reported to Ecology 60 days prior to such modification	None	12M
2(b)(xvi)	Order No. 02AQER-3949 2 nd Amendment Issued 11/17/04, Approval	F	Approval Order and O&M Manual shall be in the working vicinity and available for Ecology review	None	2M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
	Condition 3.10.2				
2(b)(xvii)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Conditions 3.9.1, 3.10.8 PSD-01-06, 1 st Amendment, Issued 11/14/02, Approval Condition 13 40 CFR 60.11	F	Operation and maintenance of unit 8A shall be conducted in a manner consistent with the NOC and PSD Approval Orders and O&M Manual. The O&M manual for unit 8A shall be maintained, followed and updated. Unit 8A must be properly operated and maintained in a manner consistent with good air pollution control practice for minimizing emissions.	None	4M, 11M
2(b)(xviii)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Conditions 3.10.6, 3.10.7	F	If operation of unit 8A is discontinued for 18 months, Order No. 02AQER-3949 2 nd Amendment may be rescinded; Ecology may extend the 18-month period upon satisfactory showing that the extension is justified	None	7M
2(b)(xix)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Condition 3.10.1	F	Odors from the facility shall be controlled	None	3M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(b)xx	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Condition 3.3.3	F	The turbine shall be fueled by pipeline quality natural gas only	None	6M

c) Compressor Unit 8B

TABLE 2(c) – The following applicable requirements apply to Compressor Unit 8B (Solar Titan Gas Turbine)

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(c)(i)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 4.1	F	Opacity shall not exceed 10%, averaged over a 6-minute period	RM9	5M
2(c)(ii)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 9.1	F	No visible emissions shall be allowed beyond the property line	RM9, RM22	5M
2(c)(iii)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 4.2 40 CFR 60.4320(a)	F	NOx emissions shall not exceed 25 ppmv at 15% O ₂ or 150 ng/J of useful output	RM7E or RM20	7M, 8M, 13M, 14M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(c)(iv)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 4.3	F	Annual NOx emissions shall not exceed 88 tons	RM7E or RM20	7M, 8M, 13M, 14M
2(c)(v)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 4.4	F	CO emissions shall not exceed 50 ppm volume basis at 15% O ₂ (dry) when operating the turbine at full load	RM10	7M, 8M, 13M, 14M
2(c)(vi)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 4.5	F	CO emissions shall not exceed 83 tons per calendar year	RM10	7M, 8M, 13M, 14M
2(c)(vii)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 4.6	F	Particulate matter emissions shall not exceed 4.4. tons per year	RM5 and RM22	6M, 13M
2(c)(viii)	Order No. 08AQER-249, Issued 04/09/08 Approval Condition 4.7	F	The turbine shall not combust any fuel containing potential sulfur emissions ≥ 0.060 lb/MMBtu	40 CFR 60.4415	13M, 14M
2(c)(ix)	Order No. 08AQER-249, Issued 04/09/08, Approval Condition 2.1	F	The Unit 8B turbine shall be a SoLoNOx Solar Titan 130S natural gas fired turbine/compressor rated at 19,500 hp	40 CFR 60.4415	4M

d) Compressor Unit 8C (Cooper Rolls Coberra 125 Avon, 14,300 hp)

Compressor Unit 8C is subject to those conditions, emission standards, and work practices included in Section 1. “Standard Conditions”, Section 2.a “Facility Wide” and the associated Monitoring Recordkeeping and Reporting Requirements in Section 3.

e) Auxiliary Generator

TABLE 2(e) – The following applicable requirements apply to Auxiliary Generator (Caterpillar Model G3516, 1,462 hp)

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
2(e)(i)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Condition 3.3.4	F	Caterpillar Model G3516 1,462 hp (1,040 kw) auxiliary generator limited to emergency operation and less than 150 hours per year	None	16M
2(e)(ii)	PSD-01-06, 1 st Amendment, Issued 11/14/2002, Approval Condition 3	F	The auxiliary generator shall not operate more than 150 hours per year on a 12-month rolling average	None	16M
2(e)(iii)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Condition 3.5.1	F	Opacity from the auxiliary generator stack shall not exceed 5% (6-minute average)	RM9	5M
2(e)(iv)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval	F	NOx emissions from the auxiliary generator shall not exceed 6.41 lb/hour (3-hour average)	RM20	6M, 16M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
	Condition 3.4.11				
2(e)(v)	PSD-01-06, 1 st Amendment, Issued 11/14/02, Approval Condition 5	F	NO _x emissions from the auxiliary generator shall not exceed 0.48 tons per year on 12-month rolling total, calculated monthly	RM20	6M, 16M
2(e)(vi)	PSD-01-06, 1 st Amendment, Issued 11/14/02, Approval Condition 2	F	Auxiliary generator fueled by pipeline quality natural gas only	None	16M
2(e)(vii)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Condition 3.4.12	F	VOC emissions from the auxiliary generator shall not exceed 0.90 lb/hour (1-hour average)	RM25A or RM18	6M
2(e)(viii)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04, Approval Condition 3.4.13	F	SO ₂ emissions from the auxiliary generator shall not exceed 0.04 lb/hour (1-hour average)	RM20 and ASTM D 4084-94, 1072-90	6M
2(e)(ix)	Order No. 02AQER-3949 2 nd Amendment, Issued 11/17/04,	F	CO emissions from the auxiliary generator shall not exceed 5.4 lb/hour (1-hour average)	RM10	6M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
	Approval Condition 3.4.10				
2(e)(x)	40 CFR 63.6640(f)(1) WAC 173-400-075	F	There is no time limit on the use of emergency stationary RICE in emergency situations	None	16M
2(e)(xi)	40 CFR 63.6640(f)(2)(i)-(iii) WAC 173-400-075	F	The auxiliary generator engine may be operated for up to 100 hours per year for the purpose of maintenance checks and readiness testing, emergency demand response and periods of deviation in voltage or frequency	None	16M
2(e)(xii)	40 CFR 63.6640(f)(4) WAC 173-400-075	F	The auxiliary generator engine may be operated for up to 50 hours per year in non-emergency situations. The 50 hours are counted towards the 100 hours provided for maintenance, testing and emergency demand response. The 50 hours per year for non-emergency situations cannot be	None	16M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except as allowed under 40 CFR 63.6640(f)(i)-(ii)		
2(e)(xiii)	40 CFR 63.6605(a) WAC 173-400-075	F	The auxiliary generator engine oil and filter must be changed every 500 hours of operation, or annually whichever comes first OR Utilize an oil sampling program per 40 CFR 63.6625(j)	None	16M
2(e)(xiv)	40 CFR 63.6605(a) WAC 173-400-075	F	The auxiliary generator engine spark plugs must be inspected every 1,000 hours of operation or annually, whichever comes first	None	16M
2(e)(xv)	40 CFR 63.6605(a) WAC 173-400-075	F	All hoses and belts on the auxiliary generator engine must be inspected every 500 hours of operation or annually, whichever	None	16M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			comes first, and replaced as necessary		
2(e)(xvi)	40 CFR 63.6625(e)(3) WAC 173-400-075	F	Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions	None	16M
2(e)(xvii)	40 CFR 63.6625(f) WAC 173-400-075	F	The auxiliary generator engine must have a non-resettable hour meter if one is not already installed	None	16M
2(e)(xviii)	40 CFR 63.6625(h) WAC 173-400-075	F	Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for	None	16M

Condition Number	Condition, Emission Standard, or Work Practice	Enforceability (Federal = F) (State = S)	Description	Testing	MRRR Reference
			appropriate and safe loading of the engine, not to exceed 30 minutes, after which emission standards applicable at all times other than startup apply		
2(e)(xix)	40 CFR 63.6605(a) WAC 173-400-075	F	Comply with the applicable emission limitations, and operating limitations in subpart ZZZZ at all times	None	2M

3. Monitoring, Recordkeeping, and Reporting Requirements (MRRR)

[WAC 173-401-630(1)], [WAC 173-401-615(1)(a), (b)]

a) General Requirements

- i. **1M.** The permittee must conscientiously monitor site operations and promptly report any deviations.

[WAC 173-401-615(1)(b)].

- ii. **2M.** At least once every 12 months, the permittee must review actual operations and any other relevant information to determine if facility operations are being conducted in accordance with each specific requirement.

The permittee must maintain records that include the date such reviews occur, the name of the person conducting the review, the information reviewed, summary information on any deviations identified and date and time when corrective action was initiated and completed.

[WAC 173-401-615(1)(b)].

- iii. **3M.** The permittee must maintain records of all complaints received. Ecology must be notified within three working days of receipt of any complaints. The permittee must address and respond to all complaints within three working days

of receipt of the complaint. The recordkeeping must include the following with regard to the complaint and the associated deviation:

- A. A record of all written complaints, complaints received by telephone or complaints received in person.
- B. Time, date, and duration of the deviation.
- C. Cause of the deviation.
- D. Estimate of excess emissions and magnitude of deviation.
- E. Corrective action taken and the results of such action.

Any odors detected beyond the property boundary of the facility must be reported within three working days. The permittee must implement remedial measures within 72 hours of detection. If odors are still detected after remedial actions are taken, Ecology may require specific measures to control odors.

[WAC 173-401-630(1)], [Order No. 02AQER-3949 2nd Amendment, Issued 11/17/04, Approval Conditions 3.8.4, 3.10.1].

- iv. **4M.** At least once every 12 months, the permittee must perform a complete review of the Operation and Maintenance manuals, permit application materials (Notice of Construction and PSD) and other relevant documents for the referenced unit and associated equipment. The purpose of this review must be to verify that the emission unit and associated equipment is being operated in accordance with the documents stated above and with good air pollution control practices in mind.

At least once every six months, the permittee must perform a review of the operation and maintenance parameters as included in the Operation and Maintenance manual for each affected emission unit and associated equipment.

The permittee must maintain records that include the date such reviews occur as well as the name of the person conducting the review. Upon discovery that any equipment is being operated in a manner inconsistent with any of the above-mentioned documents, the permittee must initiate corrective action within two business days. All such discoveries must be reported to Ecology as required by Standard Condition 1(m)(i) of this permit.

[WAC 173-401-615(1)(b)].

- v. **5M.** The following must apply generally, facility wide:

Monitoring – At least once per calendar quarter, the permittee must perform complete walk-around surveys for the purpose of determining the presence of visible emissions throughout the facility site. The surveys must be conducted

during daylight hours and while the facility is under normal operation. If any visible emissions are present, regardless of the source and including fugitive emissions, the permittee must implement corrective actions to reduce the visible emissions. If the visible emissions are not corrected within three days, the permittee must conduct a RM9 test on the source of visible emissions within seven days.

Recordkeeping – Information for each survey indicating the date the survey was performed, the name of the person performing the survey, the weather at the time of the survey, an indication of whether any visible emissions were observed, a description of the cause of the visible emissions, the corrective action taken, and the results of such action. All records must be retained for a period of five years.

Reporting – Monthly reporting of deviations must be performed as described in Standard Condition 1(m)(i), as well as annual certification of compliance as described in Standard Condition 1(m)(i). Any monthly deviation reports documenting visible emissions observed must include the time, date and duration of the deviation, a description of the cause of the visible emissions, the corrective action taken, and the results of the corrective action. In the event that any RM9 test as required above documents visible emissions in excess of the applicable standard, a copy of the RM9 form must be submitted to Ecology as part of the monthly deviation report.

[WAC 173-401-615(1)(b)], [Order No. 08AQ-E249, Issued 04/09/08, Approval Conditions, 4.1.1, 9.1].

- vi. **6M.** Semi-Annually – As part of the semi-annual monitoring report, the permittee must submit parametric monitoring data for parameters that are used to calculate emissions. This may include actual fuel usage, actual hours of operation, actual steam production, etc.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1(m)(v), emissions must be quantified by multiplying the appropriate recorded operating parameter (fuel usage, hours of operation, steam production, etc..) by an emission factor derived from the most recent source testing. If test-derived factors are unavailable, use the most recent emission factor published by USEPA. In the event that the most recent published data provides a range of emission factors, the calculation must be performed using the most conservative factor within the provided range. Use of less conservative emission factors may be used only upon written approval by Ecology. In the event that USEPA emission factors are either inappropriate or unavailable, the

permittee must propose an alternative emission factor (or emission estimation method) that may be used upon written approval by Ecology.

Calculations should be adjusted for percent oxygen as required by the applicable requirement and should indicate pollutant emission rate and concentration in the same units as the limit(s) specified in the applicable requirement(s). The emission inventory submittal must include a statement clearly indicating the emission factor that is being used, justification for the use of the emission factor, clear identification of all operating parameters used calculations, and a sample calculation.

[WAC 173-401-615(1)(b)], [PSD-01-06 1st Amendment, Issued 11/14/02, Approval Condition 8].

- vii. **7M.** Source testing as referenced must be conducted at least once every five years.

Semi-Annually – As part of the semi-annual monitoring report, the permittee must submit parametric monitoring data for parameters that are used to calculate emissions. This may include actual fuel usage, fuel type, actual hours of operation, actual steam production, etc.

Annually – As part of the annual emissions inventory submittal required under Standard Condition 1(m)(v), emissions must be quantified by multiplying the appropriate recorded operating parameter (fuel usage, hours of operation, steam production, etc...) by an emission factor derived from the most recent source testing.

Calculations should be adjusted for percent oxygen or percent carbon dioxide as required by the applicable requirement and should indicate pollutant emission rate and concentration in the same units as the limit(s) specified in the applicable requirement(s). The emission inventory submittal must include a statement clearly indicating the emission factor that is being used, justification for the use of the emission factor, clear identification of all operating parameters used in calculations, and a sample calculation.

Specifically for Unit 8A, the following must apply:

- A. Annual (12-month rolling) emissions of NO_x and CO must be monitored by summing the unit's emissions in each of the temperature ranges and adding the emissions from startup, shutdown, load change, and step-to-idle conditions. Emissions estimates must be made using the most recent source test data for each temperature range or operating condition. If source test data is not available for a certain temperature range or

operating condition, calculations must assume emissions equaled the applicable limit.

- B. Emissions during startup, shutdown, load changes and step-to-idle periods must be counted towards compliance with the annual emission limits, and must be based upon vendor recommendations, source data or other acceptable method of measuring excess emissions.
- C. Emissions of NO_x and CO from Unit 8A for the previous 12-month period must be calculated and submitted as part of the semi-annual monitoring report.
- D. NO_x emissions from startup, shutdown, load changes, and step-to-idle conditions must be counted when determining compliance with emission limits.

[WAC 173-401-615(1)(b)], [PSD-01-06 1st Amendment, Issued 11/14/02, Approval Conditions 9(c), 10, 12(c)], [Order No. 02AQER-3949 2nd Amendment; Issued 11/17/04, Approval Conditions 3.6.4], [Order No. 08AQ-E249, issued 04/09/08, Approval Condition 4.3.1, 4.5.1].

viii. **8M.** The following general testing requirements apply to all required performance testing:

- A. Test methods and procedures. Performance tests must be conducted by an independent testing firm. Data must be reduced in accordance with the specified test method. Alternate methods of testing may be proposed in writing and must be approved in writing by Ecology unless alternative methods are approved in advance.
- B. Test Conditions. Testing must be performed under conditions specified by Ecology based on representative performance of the affected facility. The permittee must make available to Ecology records necessary to determine the conditions of the performance test. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions for the purpose of performance testing. Emissions in excess of the emission limit during periods of startup, shutdown and malfunction must not be considered a violation of the emission limit unless otherwise specified in the applicable standard.
- C. Continuous Monitoring Systems and Monitoring Devices: All continuous monitoring systems and monitoring devices must be installed such that representative measurements of emissions or process parameters are obtained and operational prior to conducting performance testing. Verification of operational status must, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device.

- D. Notification. The permittee must provide at least 30-day's notice prior to any performance test. The notice must include a source test plan for approval. If Ecology does not provide comments on the plan within three weeks, the plan must be considered acceptable. If there is a delay in conducting a scheduled performance test, the permittee must notify Ecology as soon as possible.
- E. Testing facilities. The permittee must provide the following performance testing facilities:
 - (a) Sampling ports adequate for test methods. This includes:
 - (i) Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures.
 - (ii) Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
 - (b) Safe sampling platforms and access to platforms.
 - (c) Utilities for sampling and testing equipment.
- F. Test duration and sampling runs: Unless otherwise specified, a performance test must consist of three separate runs of 60 minutes each using the reference test method specified in the permit condition. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs must apply.

If a sample is accidentally lost or one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the permittee's control, Ecology may approve using the arithmetic mean of the results of the two other runs.
- G. Test reports. The permittee must submit source test reports to Ecology within 60 days of test completion. Test reports must include:
 - (a) The date and time of the test.
 - (b) A description of the source associated pollution control equipment and sampling locations.
 - (c) A description of the test methods and quality assurance procedures used.
 - (d) A summary of results in the same units and averaging periods as the applicable emission standard.

- (e) Field data and sample calculations.
- (f) The amount of fuel burned, raw materials processed, and product produced (as applicable) during the test.
- (g) Source and control equipment operating parameters during the test.
- (h) Such other source-specific information as Ecology may require.

[40 CFR 60.8(c),(d),(e),(f)], [40 CFR 60.13(b),(f)], [Order No. 02AQER-3949, 2nd Amendment, Issued 11/17/04, Approval Conditions 3.6.8, 3.6.9, 3.6.10, 3.6.11, 3.6.12], [Order No. 08AQ-E249, Issued 04/09/08, Approval Conditions 3.1, 3.2, 3.3, 3.4, 6.4, 6.5, 6.6].

UNIT 8A – Solar Titan Gas Turbine, 19,500 hp

- ix. **9M.** Periodic performance testing must be conducted on the compressor Unit 8A as described below.
 - A. Source testing for NO_x must be conducted quarterly for the first two years (as measured from the October 1-3, 2002 testing). Subsequently, testing frequency must be determined as follows:
 - (a) If source test results are less than or equal to 80 percent of all permitted limits, source testing frequency may be reduced to once every three years.
 - (b) If any source test results greater than 80 percent of any permitted limit, source testing must be conducted at least annually.
 - B. Source testing for CO must be conducted annually for the first two years (as measured from the October 1-3, 2002 testing). Subsequently, testing frequency may be reduced to once every three years upon Ecology approval.
 - C. Testing for filterable and condensable particulate matter must be conducted upon written notification by Ecology. Any testing must be conducted in conjunction with the next scheduled NO_x testing.
 - D. The testing will consist of at least three runs. The NO_x emission rate must be calculated from the measured NO_x emission rate using the equation found in 40 CFR 60.335(c)(1) in order to correct for ISO standard day conditions. The testing must be conducted consistent with all requirements of 40 CFR 60 Subparts A and GG.
 - E. When testing the turbine in SoLoNO_x mode, testing must be conducted as close as practical to 100% NGG, 94% NGG, and 92% NGG.
 - F. When testing the turbine for transient emissions, testing must be conducted as close as practical to 92 percent NGG, 75 percent NGG (idle), and a point between 75 percent and 92 percent NGG operating out of

SoLoNOx mode. The average of these tests must be used to develop an emission factor to be used to determine transient emissions.

- G. Opacity from the exhaust stack must be observed at least once during each run of any source test by a certified opacity reader. If the opacity is zero, this must be noted and included in the source test report. If visible emissions are present, observations using RM9 must be conducted for at least one six-minute period. The results of RM9 observations must be submitted as part of the test report.
- H. Written results of required source testing shall be submitted to Ecology within 60 days.

[PSD-01-06 1st Amendment, Issued 11/14/02, Approval Conditions 9(b), 12(b), 12(d), 12(e)], [Order No. 02AQER-3949 2nd Amendment; Issued 11/17/04, Approval Conditions 3.5.1, 3.6.2, 3.6.3, 3.6.3.1, 3.6.3.1.2, 3.6.3.1.3, 3.6.4.1, 3.6.4.2, 3.6.5, 3.6.6, 3.6.7, 3.6.8, 3.6.9, 3.6.11, 3.6.12], [WAC 173-401-615(1)(b)], [WAC 173-401-630(1)], [40 CFR 60.8(b), (c), (d), (f)], [40 CFR 60.335(b), (c)(1)].

- x. **10M.** The following conditions must apply to the monitoring, recordkeeping, and reporting required for Unit 8A.
 - A. The permittee must conduct monitoring as follows:
 - (a) Hours of operation of the turbine. Total hours of operation must be broken down into hours operating in SoLoNOx mode, hours operating in startup/shutdown/step-to-idle/load change and operating under other conditions as appropriate.
 - (b) Continuous monitoring of CO is required. An installed counter on the turbine must be set to perform a check every 1/100th of an hour (36 seconds) to keep track of when the pilot light is on. The data collected by the counter (total number of hours operating in and out of SoLoNOx mode) must be utilized as described under **7M** to calculate emissions. Another compliance determination method may be performed if approved in writing by Ecology.
 - (c) The permittee must monitor sulfur content of pipeline quality natural gas at least once every six months as well as during source testing. Sulfur content testing must consist of ASTM D 4468-85 and ASTM D 4084-94.
 - (d) Natural gas consumption.
 - (e) The ambient temperature at the input to the gas turbine must be monitored.
 - (f) The following recordkeeping specific to Unit 8A must be retained for a period of five years and kept in an organized, legible manner readily

available at either the facility site or the permittee's regional office in Spokane for inspection by Ecology personnel.

- (i) Records of downtime for turbine inlet temperature monitors.
 - (ii) A daily log of the hours of routine operation (92 – 100 percent NGG) and the hours of operation dealing with start-up and shut down.
 - (iii) Regular O&M records.
 - (iv) Fuel consumption.
 - (v) Sulfur monitoring records must be readily accessible at either the facility site or the permittee's regional office in Spokane.
 - (vi) The ambient temperature at the input to the gas turbine must be recorded continuously.
 - (vii) Records documenting occurrence and duration of startup, shutdown, and malfunction of Unit 8A, or any period during which monitoring equipment required by this AOP is inoperative.
- B. Semi-annual monitoring reports specific to Unit 8A must be conducted in accordance with the following.
- (a) Fuel consumption.
 - (b) Total duration that the turbine is operated at an ambient temperature greater than or equal to 0°F, total duration that the turbine is operated at an ambient temperature less than 0°F, and total duration that the turbine is operated out of SoLoNOx mode. The report must also specify the breakdown of duration for each operational mode as specified under 1) of this MRRR above.
 - (c) Total annual NOx emissions as required by **7M**.
 - (d) The permittee must submit representative daily average sulfur content data for each six-month reporting period. Data from other periods must be available to Ecology upon request.
 - (e) Calendar date of monitoring period.
 - (f) Identification of any days for which NOx (or other) data were not obtained, including reasons for not obtaining sufficient data and description of corrective actions taken.
 - (g) The results of any monitor audits or accuracy checks.
 - (h) The permittee must report use of any fuel other than pipeline quality natural gas by Unit 8A within 60 days of such use.

[PSD-01-06 1st Amendment, Issued 11/14/02, Approval Conditions 1, 6, 9(a), 12(c), 12(d), 12(e)], [Order No. 02AQER-3949 2nd Amendment, Issued 11/17/04, Approval Conditions 3.5.2, 3.6.3.2, 3.6.5, 3.6.7, 3.7.1, 3.7.2, 3.8.1 3.8.2, 3.8.5, 3.8.7, 3.9.1], [WAC 173-401-630(1)], [WAC 173-401-615(1)(b)], [40 CFR 60.7(b)], [40 CFR 60.334(b)(2)].

xi. **11M.** The permittee must create, follow, and update an O&M manual for compressor Unit 8A and the auxiliary generator. Manufacturers' instructions may be referenced. The O&M manual must be maintained in an up-to-date manner, well organized, and available for review by regulatory agencies. The O&M manual must be updated to reflect any modifications to the emission units or operating procedures. Failure to follow the O&M manual and the adequacy of the O&M manual will be two of the factors considered by Ecology in determining whether the emissions units are properly operated and maintained. The following minimum information must be included in the manual:

- A. Normal operating parameters for the emissions units.
- B. A maintenance schedule for the units.
- C. Monitoring and recordkeeping requirements that apply to the units.
- D. A description of the monitoring procedures.
- E. Actions for abnormal control system operation.

[Order No. 02AQER-3949 2nd Amendment, Issued 11/17/04, Approval Conditions 3.9.1, 3.9.1.1, 3.9.1.2, 3.9.1.3, 3.9.1.4, 3.9.1.5, 3.10.2], [PSD-01-06, 1st Amendment, issued 11/14/2002, Approval condition 13], [WAC 173-401-630(1)].

xii. **12M.** In the event of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, permittee must provide notice as required. This notice must be postmarked 60 days or as soon as practicable before the change is commenced and must include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. Ecology may request additional relevant information subsequent to this notice. These requirements are in addition to any pre-construction review requirements as outlined under Standard Condition 1(t).

[40 CFR 60.7(a)(4)].

Unit 8B – SoLoNO_x Solar Titan Gas Turbine, 19,500 hp

xiii. **13M.** Periodic performance testing must be conducted on compressor Unit 8B as described below.

- A. Performance testing for NO_x must be conducted according to 40 CFR 60.4400 (a)(1) or (a)(2) and (a)(3)(i) and (a)(ii).

- B. Performance testing must be conducted at no less than 90 percent of peak load (i.e. 100 percent of the manufacturer's design capacity at ISO conditions). Testing must consist of three separate runs of at least 20 minutes each.
- C. After the initial performance test, subsequent performance tests must be conducted on an annual basis (no more than 14 calendar months following the previous test). If NOx emissions are less than or equal to 75 percent of the NOx emission limit, the frequency of subsequent testing may be reduced to once every two years (no more than 26 calendar months following the previous test). If NOx emissions from any subsequent test are greater than 75 percent of the limit, the next test must be conducted within 14 calendar months.
- D. Performance testing for CO must follow the NOx testing schedule.
- E. Performance testing for PM may be required upon written notice from Ecology if any of the following occur:
 - (a) The opacity limit in Condition 2(a)(i) is exceeded.
 - (b) Procedures in the O&M manual are not followed.
 - (c) Conditions 2(c)(i), 2(c)(ii) are not met.
- F. Opacity from the exhaust stack must be observed at least once during each run of any source test by a certified opacity reader. If the opacity is zero, this must be noted and included in the source test report. If visible emissions are present, observations using RM9 must be conducted for at least one six-minute period. The results of RM9 observations must be submitted as part of the test report.
- G. Periodic performance testing for SO2 must be conducted on an annual basis (no more than 14 months following the previous test). Natural gas sulfur content must be measured during all NOx testing according to 40 CFR 60.4415.

[40 CFR 60.8], [40 CFR 60.4340], [40 CFR 60.4400], [40 CFR 60.4415], [Order No. 08AQER-249, 2nd Amendment, Issued 4/9/08, Approval Conditions 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.4.2, 4.5.1, 4.6.1.1, 4.7.1].

- xiv. **14M.** The following conditions must apply to the monitoring, recordkeeping, and reporting for Unit 8B.
 - A. The permittee must conduct monitoring as follows:
 - (a) Hours of operation of the turbine.
 - (b) Fuel consumption.

- (c) The permittee may be exempted from monitoring sulfur content of natural gas by demonstrating that potential sulfur emissions from the fuel do not exceed 0.060 lb SO₂/MM Btu. Demonstration must consist of a current, valid purchase contract, tariff sheet or transportation contract demonstrating that the total fuel sulfur content is 20 grains of sulfur per 100 standard cubic feet or less [40 CFR 60.4365(a)].
- B. The following recordkeeping specific to Unit 8B must be retained for a period of five years and kept in an organized, legible manner readily available at either the facility site or the permittee's regional office in Spokane for inspection by Ecology personnel.
 - (d) Natural gas usage records (totals for each month and calendar year).
 - (e) Hours of turbine operation (totals for each month and calendar year).
 - (f) A copy of the current natural gas purchase contract or tariff sheet.
 - (g) A file of initial and subsequent source testing results.
 - (h) A copy of the O&M manual and records.
 - (i) A description of the nature and details of any emergency or other situation that constitutes a deviation. This recordkeeping requirement may be met by retaining a copy of deviation reports submitted to Ecology.
 - (j) Records of the occurrence and duration of startup, shutdown, and malfunction of Unit 8B, or any period during which required monitoring is inoperative.
- C. Reporting the following reports must be submitted within 45 days of the end of the calendar year.
 - (a) Natural gas usage, including totals for each month and for the calendar year.
 - (b) Hours of turbine operation, including totals for each month and for the calendar year.
 - (c) A copy of the natural gas purchase contract, tariff sheet or transportation contract required by 1)c) of this MRRR.

[Order No. 08AQ-E249, Issued 04/09/08, Approval Conditions 4.7.2, 7.1, 7.2, 7.3, 7.4, 7.5, 8.1, 8.2, 8.3, 8.5.], [WAC 173-401-630(1)], WAC 173-401-615(1)(b)], [40 CFR 60.7(b)].

- xv. **15M.** The permittee must follow and update an O&M manual for compressor Unit 8B. The O&M manual must be maintained in an up-to-date manner, well organized, and easily accessible for inspection by Ecology personnel. Manufacturers' instructions may be referenced. The O&M manual must at a minimum include the following:

- A. Normal operating parameters for the control systems.
- B. A maintenance schedule for the control systems.
- C. Monitoring and recordkeeping requirements.
- D. A description of the monitoring procedures.
- E. Actions to be taken in response to abnormal control system operation.

[Order No. 08AQ-E249, Issued 04/09/08, Approval Conditions 5.1, 5.2, 5.3, 5.4, 5.5].

Auxiliary Power Generator – Caterpillar Model G3516

- xvi. **16M.** The following monitoring, recordkeeping, and reporting are required for the auxiliary generator (Caterpillar Model G3516).
 - A. The permittee must monitor hours of operation by installing and using a non-resettable hour meter to measure the hours of generator operation.
 - B. The following recordkeeping specific to the generator must be retained for a period of five years and kept in an organized, legible manner readily available for inspection by Ecology personnel.
 - (a) A copy of each notification and report submitted to comply with subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
 - (b) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
 - (c) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
 - (d) Records of all required maintenance performed on the air pollution control and monitoring equipment.
 - (e) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
 - (f) Records required in Table 6 of subpart ZZZZ to show continuous compliance with each applicable emission or operating limitation.
 - (g) Records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) were maintained according to the facility maintenance plan. [40 CFR 63.6655(e)(2)].

- (h) Records of the hours of engine operation as recorded by the non-resettable hour meter.
 - (i) Records of hours of emergency operation, including what classified the operation as emergency and the number of hours spent for non-emergency operation.
 - (j) Hours of operation per calendar year.
 - (k) NOx emissions per rolling 12-month period, calculated once per month.
 - (l) A log of auxiliary generator operation. The log must identify the reason for operation and hours of operation.
- C. Reporting specific to the generator must be conducted in accordance with Standard Condition 1(m) as well as semi-annual emissions reporting required by 6M. Additional records may be requested by Ecology in the future.
- D. Monthly deviation reports required by standard condition 1(m)(i) must include:
 - (a) Any use of a fuel other than pipeline quality natural gas.
 - (b) Any month in which the 12-month rolling total operating hours exceeded 150.
 - (c) Any month in which the 12-month rolling total NOx emissions exceeded 0.48 tons.

[PSD-01-06 1st Amendment, Issued 11/14/02, Approval Conditions 3, 5, 7], [Order No. 02AQER-3949 2nd Amendment, Issued 11/17/04, Approval Conditions 3.3.4, 3.8.3, 3.8.7], [WAC 173-401-630(1)], [WAC 173-401-615(1)(b)], [40 CFR 63.6655(a),(d),(f)].

4. Inapplicable Requirements

Ecology has determined that the entire source, including all emission units, is not subject to the following requirements at the time of permit issuance. The permit shield in WAC 173-401-640 applies to the requirements so identified. Some of the requirements listed below may become applicable during the permit term due to an invoking event, even though the requirement is deemed inapplicable at the time of permit issuance. Any such requirements must be met on a timely basis by the permittee through submittal of a compliance schedule, per WAC 173-401-510(2)(h)(iii)(B).

TABLE 4 – Inapplicable Requirements

Inapplicable Requirement	Requirement Description	Explanation
40 CFR 64	Compliance Assurance Monitoring (CAM)	None of the emission units at the facility have potential emissions of any criteria pollutant in excess of 100 tons.
40 CFR 68	Chemical Accident	The facility does not use or store more than the threshold quantity of any substance listed in Part 68.
40 CFR 63, Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.	Units 8A, 8B and 8C are existing stationary combustion turbines (constructed or reconstructed before 1/14/2003) and therefore are not subject to the subpart. Station No. 8 is not a major source of HAP emissions.

Attachment 1

TABLE 1 TO APPENDIX A OF SUBPART A—EMISSION THRESHOLDS BY POLLUTANT (TPY¹) FOR TREATMENT OF POINT SOURCES AS TYPE A UNDER 40 CFR 51.30.

Pollutant	Emissions threshold for Type A treatment
(1) SO ₂	≥2500.
(2) VOC	≥250.
(3) NO _x	≥2500.
(4) CO	≥2500.
(5) Pb	Does not determine Type A status.
(6) PM ₁₀	≥250.
(7) PM _{2.5}	≥250.
(8) NH ₃ ²	≥250.

¹ tpy = Tons per year of actual emissions.

² Ammonia threshold applies only in areas where ammonia emissions are a factor in determining whether a source is a major source, *i.e.*, where ammonia is considered a significant precursor of PM_{2.5}.

Attachment 2

TABLE 2a TO APPENDIX A OF SUBPART A—DATA ELEMENTS FOR REPORTING ON EMISSIONS FROM POINT SOURCES,
WHERE REQUIRED BY 40 CFR 51.30

Data elements	Every-year reporting	Three-year reporting
(1) Inventory year	✓	✓
(2) Inventory start date	✓	✓
(3) Inventory end date	✓	✓
(4) Contact name	✓	✓
(5) Contact phone number	✓	✓
(6) FIPS code	✓	✓
(7) Facility ID codes	✓	✓
(8) Unit ID code	✓	✓
(9) Process ID code	✓	✓
(10) Stack ID code	✓	✓
(11) Site name	✓	✓
(12) Physical address	✓	✓
(13) SCC	✓	✓
(14) Heat content (fuel) (annual average)	✓	✓
(15) Heat content (fuel) (ozone season, if applicable)	✓	✓
(16) Ash content (fuel) (annual average)	✓	✓
(17) Sulfur content (fuel) (annual average)	✓	✓
(18) Pollutant code	✓	✓
(19) Activity/throughput (for each period reported)	✓	✓
(20) Summer day emissions (if applicable)	✓	✓
(21) Ozone season emissions (if applicable)	✓	✓
(22) Annual emissions	✓	✓
(23) Emission factor	✓	✓
(24) Winter throughput (percent)	✓	✓
(25) Spring throughput (percent)	✓	✓
(26) Summer throughput (percent)	✓	✓
(27) Fall throughput (percent)	✓	✓
(28) Hr/day in operation	✓	✓
(29) Day/wk in operation	✓	✓
(30) Wk/yr in operation	✓	✓
(31) X stack coordinate (longitude)	✓
(32) Y stack coordinate (latitude)	✓
(33) Method accuracy description (MAD) codes	✓
(34) Stack height	✓
(35) Stack diameter	✓
(36) Exit gas temperature	✓
(37) Exit gas velocity	✓
(38) Exit gas flow rate	✓
(39) NAICS at the Facility level	✓
(40) Design capacity (including boiler capacity if applicable)	✓
(41) Maximum generator nameplate Capacity	✓
(42) Primary capture and control efficiencies (percent)	✓
(43) Total capture and control efficiency (percent)	✓
(44) Control device type	✓
(45) Emission type	✓
(46) Emission release point type	✓
(47) Rule effectiveness (percent)	✓
(48) Winter work weekday emissions of CO (if applicable)	✓

Attachment 3

63.6640 Demonstrating continuous compliance...

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4), is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for the purpose specified in paragraph (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(ii)-(iii) [Reserved]

(3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

- (4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.
- (ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
- (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

Appendix A: Federal and State Regulation Date Reference List

WAC	F	S	CFR	F	RCW	S
425	X	3/13/2000	52.33	7/1/2024	70A.15.1070	2024
441	X	3/12/2022	60.11	7/1/2024	70A.15.2210	2024
460	X	11/22/2019	60.12	7/1/2024	70A.15.2220	2024
400-035	X	9/16/2018	60.332	7/1/2024	70A.15.2230	2024
400-040	2/24/2020	9/16/2018	60.334	7/1/2024	70A.15.2270	2024
400-050	2/24/2020	1/19/2023	60.335	7/1/2024	70A.15.2500	2024
400-060	2/24/2020	11/25/2018	60.4	7/1/2024	70A.15.2530	2024
400-070	10/6/2016	1/19/2023	60.43	7/1/2024	70A.15.6410	2024
400-075	X	7/1/2016	60.46	7/1/2024	70A.15.6420	2024
400-105	2/24/2020	11/25/2018	60.48	7/1/2024		
400-107	6/2/1995	9/16/2018	60.49	7/1/2024		
400-108	12/28/2023	9/16/2018	60.7	7/1/2024		
400-109	X	9/16/2018	60.8	7/1/2024		
400-110	9/29/2016	12/29/2012	61, subpart M	7/1/2024		
400-113	4/29/2015	12/29/2012	63.6	7/1/2024		
400-114	X	12/29/2012	63.7	7/1/2024		
400-171	2/24/2020	9/16/2018	63.8	7/1/2024		
400-200	10/3/2014	2/10/2005	63.9	7/1/2024		
400-205	6/2/1995	3/22/1991	63.10	7/1/2024		
400-560	4/29/2015	12/29/2012	63.455	7/1/2024		
400-720	10/6/2016	1/19/2023	63.7500	7/1/2024		
400-820	11/7/2014	12/29/2012	63.7510	7/1/2024		
401-200	1/2/2003	3/5/2016	63.7515	7/1/2024		
401-500	1/2/2003	10/17/2002	63.7520	7/1/2024		
401-510	1/2/2003	3/5/2016	63.7525	7/1/2024		
401-520	1/2/2003	11/4/1993	63.7540	7/1/2024		
401-530	1/2/2003	10/17/2002	63.7545	7/1/2024		
401-605	1/2/2003	11/4/1993	63.7550	7/1/2024		
401-610	1/2/2003	11/4/1993	64.3	7/1/2024		
401-615	1/2/2003	10/17/2002	64.4	7/1/2024		
401-620	1/2/2003	11/4/1993	64.6	7/1/2024		
401-625	1/2/2003	11/4/1993	64.7	7/1/2024		
401-630	1/2/2003	3/5/2016	64.8	7/1/2024		
401-640	1/2/2003	11/4/1993	64.9	7/1/2024		
401-645	1/2/2003	11/4/1993	68.36	7/1/2024		
401-650	1/2/2003	11/4/1993	70.6	7/1/2024		
401-705	1/2/2003	11/4/1993	82	7/1/2024		
401-710	1/2/2003	10/17/2002				
401-720	1/2/2003	11/4/1993				
401-722	1/2/2003	10/17/2002				
401-724	1/2/2003	3/5/2016				
401-730	1/2/2003	11/4/1993				
401-930	1/2/2003	1/30/1994				
455-100	X	11/25/2018				
455-120	X	12/31/2012				