

RECEIVED
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DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE A Q PROGRAM



NORTHWEST PIPELINE
Environmental Services
295 Chipeta Way, 3rd Floor
Salt Lake City, UT 84108-1220

July 20, 2015

Bill Rogers
Air Quality Division
Department of Environmental Quality
1410 North Hilton Drive
Boise, ID 83706

**Re: Air Quality Permit Renewal
Soda Springs Compressor Station – Tier I Operating Permit T-2011.0064**

Dear Mr. Rogers:

Enclosed is the renewal application for the Northwest Pipeline LLC Soda Springs compressor station. If you have any questions about the renewal application I can be reached at either (801) 584-6748 or (801) 673-1334.

Sincerely,

A handwritten signature in blue ink that reads "Derek Forsberg". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Derek Forsberg
Environmental Specialist

cc: File – Soda Springs CS Air Permitting – SLC



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline: 1-877-5PERMIT

General Information Form GI
 Revision 7
 6/29/12

Please see instructions on back page before filling out the form. All information is required. If information is missing, the application will not be processed.

Identification

1. Facility name: Soda Springs Compressor Station
 2. Existing facility identification number: 007-00008
 Check if new facility (not yet operating)
 3. Brief project description: Natural Gas Transmission Tier I Renewal

Facility Information

4. Primary facility permitting contact name: Derek Forsberg
 Contact type: Facility permitting contact
 Telephone number: 801-584-6748
 E-mail: derek.forsberg@williams.com
 5. Alternate facility permitting contact name: Mark Potochnik
 Alternate contact type: Facility permitting contact
 Telephone number: 801-584-6476
 E-mail: mark.potochnik@williams.com
 6. Mailing address where permit will be sent (street/city/county/state/zip code): P.O. Box 58900
 7. Physical address of permitted facility (if different than mailing address) (street/city/county/state/zip code): 37538 US Hwy 30, Georgetown, ID
 8. Is the equipment portable? Yes* No *If yes, complete and attach PERF; see instructions.
 9. NAICS codes: Primary NAICS: 486210 Secondary NAICS:
 10. Brief business description and principal product produced: Natural gas transmission
 11. Identify any adjacent or contiguous facility this company owns and/or operates: Burley, Caldwell, Lava Hot Springs, Pegram, Buhl, Boise, Mt.Home, Little Valley, Owyhee, and Pocatello Compressor Stations

12. Specify type of application Permit to construct (PTC); application fee of \$1,000 required. See instructions.
 Tier I permit Tier II permit Tier II/Permit to construct
 For Tier I permitted facilities only: If you are applying for a PTC then you must also specify how the PTC will be incorporated into the Tier I permit.
 Co-process Tier I modification and PTC Incorporate PTC at the time of Tier I renewal Administratively amend the Tier I permit to incorporate the PTC upon applicant's request (IDAPA 58.01.01.209.05.a, b, or c)

Certification

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho), I certify based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

13. Responsible official's name: Robert Harmon
 Official's title: Director of Operations
 Official's address: 295 Chipeta Way Salt Lake City, UT 84108
 Telephone number: 801-584-6856
 E-mail: rob.harmon@williams.com
 Official's signature: *Robert C Harmon*
 Date: 7/27/15

14. Check here to indicate that you want to review the draft permit before final issuance.



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Cover Sheet for Air Permit Application – Tier I **Form CSTI**
 Revision 5
 08/28/08

Please see instructions on page 2 before filling out the form.

| COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER | | | |
|---|---------------------------------|--------------------|-----------|
| 1. Company Name | Northwest Pipeline LLC | | |
| 2. Facility Name | Soda Springs Compressor Station | 3. Facility ID No. | 007-00008 |
| 4. Brief Project Description - One sentence or less | Tier I Permit Renewal | | |

| PERMIT APPLICATION TYPE | |
|--|--|
| 5. <input type="checkbox"/> Initial Tier I | <input type="checkbox"/> Tier I Administrative Amendment |
| <input checked="" type="checkbox"/> Tier I Renewal: Permit No.: T1-2011.0064 | <input type="checkbox"/> Tier I Minor Modification |
| Date Issued: 6/27/2014 | <input type="checkbox"/> Tier I Significant Modification |

| FORMS INCLUDED | | | |
|-------------------------------------|--------------------------|---|--------------------------|
| Included | N/A | Forms | DEQ Verify |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Form CSTI – Cover Sheet | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Form GI – Facility Information | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form EU0 – Emissions Units General | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Form EU1– Industrial Engine Information Please specify number of EU1s attached: <u>4</u> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form EU2– Nonmetallic Mineral Processing Plants Please specify number of EU2s attached: _____ | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form EU3– Spray Paint Booth Information Please specify number of EU3s attached: _____ | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form EU4– Cooling Tower Information Please specify number of EU4s attached: _____ | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form EU5 – Boiler Information Please specify number of EU5s attached: _____ | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form CBP– Concrete Batch Plant Please Specify number of CBPs attached: _____ | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form HMAP – Hot Mix Asphalt Plant Please specify number of HMAPs attached: _____ | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | PERF – Portable Equipment Relocation Form | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form BCE– Baghouses Control Equipment | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form SCE– Scrubbers Control Equipment | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form VSCE – Venturi Scrubber Control Equipment | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form ESP – Electrostatic Precipitator | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form AO – Afterburner/Oxidizer | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form CYS – Cyclone Separator | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form CA – Carbon Adsorber | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Forms EI-CP1 - EI-CP4– Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets) | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | Form CAM – Compliance Assurance Monitoring | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Form FRA – Federal Regulation Applicability | <input type="checkbox"/> |



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | |
|---|--|---------------------------------|
| 1. Company Name: Northwest Pipeline LLC | 2. Facility Name: Soda Springs Compressor Station | 3. Facility ID No: 007-00008 |
| 4. Brief Project Description: Air permit renewal | | |

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

| | | | |
|---|---|--|--------------|
| 5. Emissions Unit (EU) Name: | UNIT 1 | | |
| 6. EU ID Number: | UNIT 1 | | |
| 7. EU Type: | <input type="checkbox"/> New Source | <input type="checkbox"/> Unpermitted Existing Source | Date Issued: |
| | <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: | | |
| 8. Manufacturer: | DRESSER-RAND CLARK | | |
| 9. Model: | TLA-6 | | |
| 10. Maximum Capacity: | 1700 HP | | |
| 11. Date of Construction: | 1956 | | |
| 12. Date of Modification (if any): | | | |
| 13. Is this a Controlled Emission Unit? | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22. | | |

EMISSIONS CONTROL EQUIPMENT

| | | | | | | |
|--|--|------|-----------------|-----------------|-----|----|
| 14. Control Equipment Name and ID: | | | | | | |
| 15. Date of Installation: | 16. Date of Modification (if any): | | | | | |
| 17. Manufacturer and Model Number: | | | | | | |
| 18. ID(s) of Emission Unit Controlled: | | | | | | |
| 19. Is operating schedule different than emission units(s) involved? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 20. Does the manufacturer guarantee the control efficiency of the control equipment? | <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee) | | | | | |
| | Pollutant Controlled | | | | | |
| | PM | PM10 | SO ₂ | NO _x | VOC | CO |
| Control Efficiency | | | | | | |

21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

| | |
|------------------------|----------------------------|
| 22. Actual Operation: | Varies depending on market |
| 23. Maximum Operation: | 8760 HOURS/YEAR |

REQUESTED LIMITS

| | |
|---|---|
| 24. Are you requesting any permit limits? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, indicate all that apply below) |
| <input type="checkbox"/> Operation Hour Limit(s): | |
| <input type="checkbox"/> Production Limit(s): | |
| <input type="checkbox"/> Material Usage Limit(s): | |
| <input type="checkbox"/> Limits Based on Stack Testing: | Please attach all relevant stack testing summary reports |
| <input type="checkbox"/> Other: | |
| 25. Rationale for Requesting the Limit(s): | |



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | |
|--|--|---------------------------------|
| 1. Company Name: Northwest Pipeline LLC | 2. Facility Name: Soda Springs Compressor Station | 3. Facility ID No: 007-00008 |
| 4. Brief Project Description: Air permit renewal | | |

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

| | | | |
|---|---|--|--------------|
| 5. Emissions Unit (EU) Name: | UNIT 2 | | |
| 6. EU ID Number: | UNIT 2 | | |
| 7. EU Type: | <input type="checkbox"/> New Source | <input type="checkbox"/> Unpermitted Existing Source | Date Issued: |
| | <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: | | |
| 8. Manufacturer: | DRESSER-RAND CLARK | | |
| 9. Model: | TLA-6 | | |
| 10. Maximum Capacity: | 1700 HP | | |
| 11. Date of Construction: | 1956 | | |
| 12. Date of Modification (if any): | | | |
| 13. Is this a Controlled Emission Unit? | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22. | | |

EMISSIONS CONTROL EQUIPMENT

| | | | | | | |
|--|--|------|-----------------|-----------------|-----|----|
| 14. Control Equipment Name and ID: | | | | | | |
| 15. Date of Installation: | 16. Date of Modification (if any): | | | | | |
| 17. Manufacturer and Model Number: | | | | | | |
| 18. ID(s) of Emission Unit Controlled: | | | | | | |
| 19. Is operating schedule different than emission units(s) involved? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 20. Does the manufacturer guarantee the control efficiency of the control equipment? | <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee) | | | | | |
| | Pollutant Controlled | | | | | |
| | PM | PM10 | SO ₂ | NO _x | VOC | CO |
| Control Efficiency | | | | | | |

21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

| | |
|------------------------|----------------------------|
| 22. Actual Operation: | Varies depending on market |
| 23. Maximum Operation: | 8760 HOURS/YEAR |

REQUESTED LIMITS

| | |
|---|---|
| 24. Are you requesting any permit limits? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, indicate all that apply below) |
| <input type="checkbox"/> Operation Hour Limit(s): | |
| <input type="checkbox"/> Production Limit(s): | |
| <input type="checkbox"/> Material Usage Limit(s): | |
| <input type="checkbox"/> Limits Based on Stack Testing: | Please attach all relevant stack testing summary reports |
| <input type="checkbox"/> Other: | |
| 25. Rationale for Requesting the Limit(s): | |



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IDENTIFICATION

| | | |
|--|--|---------------------------------|
| 1. Company Name: Northwest Pipeline LLC | 2. Facility Name: Soda Springs Compressor Station | 3. Facility ID No: 007-00008 |
| 4. Brief Project Description: Air permit renewal | | |

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

| | | | |
|---|---|--|--------------|
| 5. Emissions Unit (EU) Name: | UNIT 3 | | |
| 6. EU ID Number: | UNIT 3 | | |
| 7. EU Type: | <input type="checkbox"/> New Source | <input type="checkbox"/> Unpermitted Existing Source | Date Issued: |
| | <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: | | |
| 8. Manufacturer: | DRESSER-RAND CLARK | | |
| 9. Model: | TLA-6 | | |
| 10. Maximum Capacity: | 1700 HP | | |
| 11. Date of Construction: | 1956 | | |
| 12. Date of Modification (if any): | | | |
| 13. Is this a Controlled Emission Unit? | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22. | | |

EMISSIONS CONTROL EQUIPMENT

| | | | | | | |
|--|--|------|-----------------|-----------------|-----|----|
| 14. Control Equipment Name and ID: | | | | | | |
| 15. Date of Installation: | 16. Date of Modification (if any): | | | | | |
| 17. Manufacturer and Model Number: | | | | | | |
| 18. ID(s) of Emission Unit Controlled: | | | | | | |
| 19. Is operating schedule different than emission units(s) involved? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 20. Does the manufacturer guarantee the control efficiency of the control equipment? | <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee) | | | | | |
| | Pollutant Controlled | | | | | |
| | PM | PM10 | SO ₂ | NO _x | VOC | CO |
| Control Efficiency | | | | | | |

21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

| | |
|------------------------|----------------------------|
| 22. Actual Operation: | Varies depending on market |
| 23. Maximum Operation: | 8760 HOURS/YEAR |

REQUESTED LIMITS

| | |
|---|---|
| 24. Are you requesting any permit limits? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, indicate all that apply below) |
| <input type="checkbox"/> Operation Hour Limit(s): | |
| <input type="checkbox"/> Production Limit(s): | |
| <input type="checkbox"/> Material Usage Limit(s): | |
| <input type="checkbox"/> Limits Based on Stack Testing: | Please attach all relevant stack testing summary reports |
| <input type="checkbox"/> Other: | |
| 25. Rationale for Requesting the Limit(s): | |



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | |
|--|--|---------------------------------|
| 1. Company Name: Northwest Pipeline LLC | 2. Facility Name: Soda Springs Compressor Station | 3. Facility ID No: 007-00008 |
| 4. Brief Project Description: Air permit renewal | | |

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

| | | | |
|---|---|--|--------------|
| 5. Emissions Unit (EU) Name: | UNIT 4 | | |
| 6. EU ID Number: | UNIT 4 | | |
| 7. EU Type: | <input type="checkbox"/> New Source | <input type="checkbox"/> Unpermitted Existing Source | Date Issued: |
| | <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: | | |
| 8. Manufacturer: | DRESSER-RAND CLARK | | |
| 9. Model: | TCVA-16 | | |
| 10. Maximum Capacity: | 6000 HP | | |
| 11. Date of Construction: | 1969 | | |
| 12. Date of Modification (if any): | | | |
| 13. Is this a Controlled Emission Unit? | <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22. | | |

EMISSIONS CONTROL EQUIPMENT

| | | | | | | |
|--|--|------|-----------------|-----------------|-----|----|
| 14. Control Equipment Name and ID: | | | | | | |
| 15. Date of Installation: | 16. Date of Modification (if any): | | | | | |
| 17. Manufacturer and Model Number: | | | | | | |
| 18. ID(s) of Emission Unit Controlled: | | | | | | |
| 19. Is operating schedule different than emission units(s) involved? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| 20. Does the manufacturer guarantee the control efficiency of the control equipment? | <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee) | | | | | |
| | Pollutant Controlled | | | | | |
| | PM | PM10 | SO ₂ | NO _x | VOC | CO |
| Control Efficiency | | | | | | |

21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

| | |
|------------------------|----------------------------|
| 22. Actual Operation: | Varies depending on market |
| 23. Maximum Operation: | 8760 HOURS/YEAR |

REQUESTED LIMITS

| | |
|---|---|
| 24. Are you requesting any permit limits? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, indicate all that apply below) |
| <input type="checkbox"/> Operation Hour Limit(s): | |
| <input type="checkbox"/> Production Limit(s): | |
| <input type="checkbox"/> Material Usage Limit(s): | |
| <input type="checkbox"/> Limits Based on Stack Testing: | Please attach all relevant stack testing summary reports |
| <input type="checkbox"/> Other: | |
| 25. Rationale for Requesting the Limit(s): | |



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | | |
|-------------------------------|--|---------------------------------|--|
| 1. Company Name | | 2. Facility Name: | |
| Northwest Pipeline LLC | | Soda Springs Compressor Station | |
| 3. Brief Project Description: | Natural Gas Transmission Tier I Renewal Unit 1 | | |

IC ENGINE DESCRIPTION AND SPECIFICATIONS

4. Type of unit: New unit Unpermitted existing unit Modification to an existing permitted unit? Permit number: _____

Full-time operation (non-emergency standby use)?

Emergency standby use only (operation limited to 100 hrs/yr for maintenance and testing and emergency use only)?

Emergency fire pump use only?

Stationary test cell/stand operation only (as defined in NSPS Subpart ZZZZ)?

National security operation only (as defined in NSPS Subpart ZZZZ)?

Institutional emergency standby IC engine (as defined in NSPS Subpart ZZZZ)?

IC ENGINE SPECIFICATIONS

Questions 5 through 15 apply to all IC engines.

5. IC Engine Manufacturer: Dresser-Rand Clark 6. Model: TLA-6 7. Date manufactured: 1956 8. Model year: 1956

9. Date of installation (if an existing IC engine): 1956 10. IC Engine cylinder displacement: _____ liters per cylinder

11. Maximum rated horsepower (per the data plate/manufacture specifications): 1700 bhp

12. EPA Certification: Tier certification number _____ or None/not tier certified

13. Ignition type: Spark Compression

14. Fuel combusted in the IC engine? Distillate fuel oil Natural gas/LNG LPG/propane
 If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)

15. IC engine exhaust stack parameters: Diameter 18 inches Height 25.0 feet Temperature 745 °F Flow rate 19238 acfm

IC ENGINE EMISSIONS PARAMETERS

Questions 16 through 27 apply to full-time non-Tier certified IC engines or Tier certified IC engines manufactured prior to July 11, 2005. If you are proposing a Tier certified IC engine manufactured on and after July 11, 2005 or an emergency standby IC engine do not answer questions 17 through 27.

16. Testing schedule (for emergency standby IC engines only): _____ hrs/day _____ hrs/mon _____ hrs/qtr _____ hrs/yr

17. Maximum daily operation: _____ hrs/day 18. Maximum annual operation: _____ hrs/yr **Note:** These operational limits will be placed in the permit.

19. Will CO emissions be limited to a specific ppmvd (i.e. 49 or 23 ppmvd)? Yes No 20. What will the CO emissions limit be? _____ ppmvd

21. Will CO emissions be reduced by 70% or more? Yes No

22. Will a CEMS (Continuous Emissions Monitoring System) be used to measure pollutants in the IC engine exhaust stream? Yes No

23. Will a CPMS (Continuous Parameters Monitoring System) be used to measure parameters of the IC engine exhaust stream? Yes No

24. Will the IC engine be equipped with an oxidation catalyst? Yes No

25. If applicable, will the oxidation catalyst be equipped with a temperature measurement system to ensure it is operating properly? Yes No

26. Will the IC engine be equipped with a diesel particulate filter? Yes No

27. If applicable, will the diesel particulate filter be equipped with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached? Yes No



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | | |
|-------------------------------|--|---------------------------------|--|
| 1. Company Name | | 2. Facility Name: | |
| Northwest Pipeline LLC | | Soda Springs Compressor Station | |
| 3. Brief Project Description: | Natural Gas Transmission Tier I Renewal Unit 2 | | |

IC ENGINE DESCRIPTION AND SPECIFICATIONS

4. Type of unit:

New unit Unpermitted existing unit Modification to an existing permitted unit? Permit number: _____

Full-time operation (non-emergency standby use)?

Emergency standby use only (operation limited to 100 hrs/yr for maintenance and testing and emergency use only)?

Emergency fire pump use only?

Stationary test cell/stand operation only (as defined in NSPS Subpart ZZZZ)?

National security operation only (as defined in NSPS Subpart ZZZZ)?

Institutional emergency standby IC engine (as defined in NSPS Subpart ZZZZ)?

IC ENGINE SPECIFICATIONS

Questions 5 through 15 apply to all IC engines.

5. IC Engine Manufacturer: Dresser-Rand Clark 6. Model: TLA-6 7. Date manufactured: 1956 8. Model year: 1956

9. Date of installation (if an existing IC engine): 1956 10. IC Engine cylinder displacement: _____ liters per cylinder

11. Maximum rated horsepower (per the data plate/manufacture specifications): 1700 bhp

12. EPA Certification: Tier certification number _____ or None/not tier certified

13. Ignition type: Spark Compression

14. Fuel combusted in the IC engine? Distillate fuel oil Natural gas/LNG LPG/propane
 If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)

15. IC engine exhaust stack parameters: Diameter 18 inches Height 25.0 feet Temperature 745 °F Flow rate 19238 acfm

IC ENGINE EMISSIONS PARAMETERS

Questions 16 through 27 apply to full-time non-Tier certified IC engines or Tier certified IC engines manufactured prior to July 11, 2005. If you are proposing a Tier certified IC engine manufactured on and after July 11, 2005 or an emergency standby IC engine do not answer questions 17 through 27.

16. Testing schedule (for emergency standby IC engines only): _____ hrs/day _____ hrs/mon _____ hrs/qtr _____ hrs/yr

17. Maximum daily operation: _____ hrs/day 18. Maximum annual operation: _____ hrs/yr **Note:** These operational limits will be placed in the permit.

19. Will CO emissions be limited to a specific ppmvd (i.e. 49 or 23 ppmvd)? Yes No 20. What will the CO emissions limit be? _____ ppmvd

21. Will CO emissions be reduced by 70% or more? Yes No

22. Will a CEMS (Continuous Emissions Monitoring System) be used to measure pollutants in the IC engine exhaust stream? Yes No

23. Will a CPMS (Continuous Parameters Monitoring System) be used to measure parameters of the IC engine exhaust stream? Yes No

24. Will the IC engine be equipped with an oxidation catalyst? Yes No

25. If applicable, will the oxidation catalyst be equipped with a temperature measurement system to ensure it is operating properly? Yes No

26. Will the IC engine be equipped with a diesel particulate filter? Yes No

27. If applicable, will the diesel particulate filter be equipped with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached? Yes No



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | | |
|-------------------------------|--|---------------------------------|--|
| 1. Company Name | | 2. Facility Name: | |
| Northwest Pipeline LLC | | Soda Springs Compressor Station | |
| 3. Brief Project Description: | Natural Gas Transmission Tier I Renewal Unit 3 | | |

IC ENGINE DESCRIPTION AND SPECIFICATIONS

4. Type of unit: New unit Unpermitted existing unit Modification to an existing permitted unit? Permit number: _____
 Full-time operation (non-emergency standby use)?
 Emergency standby use only (operation limited to 100 hrs/yr for maintenance and testing and emergency use only)?
 Emergency fire pump use only?
 Stationary test cell/stand operation only (as defined in NSPS Subpart ZZZZ)?
 National security operation only (as defined in NSPS Subpart ZZZZ)?
 Institutional emergency standby IC engine (as defined in NSPS Subpart ZZZZ)?

IC ENGINE SPECIFICATIONS

Questions 5 through 15 apply to all IC engines.

5. IC Engine Manufacturer: Dresser-Rand Clark 6. Model: TLA-6 7. Date manufactured: 1956 8. Model year: 1956
 9. Date of installation (if an existing IC engine): 1956 10. IC Engine cylinder displacement: _____ liters per cylinder
 11. Maximum rated horsepower (per the data plate/manufacturer specifications): 1700 bhp
 12. EPA Certification: Tier certification number _____ or None/not tier certified
 13. Ignition type: Spark Compression
 14. Fuel combusted in the IC engine? Distillate fuel oil Natural gas/LNG LPG/propane
 If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)
 15. IC engine exhaust stack parameters: Diameter 18 inches Height 25.0 feet Temperature 745 °F Flow rate 19238 acfm

IC ENGINE EMISSIONS PARAMETERS

Questions 16 through 27 apply to full-time non-Tier certified IC engines or Tier certified IC engines manufactured prior to July 11, 2005. If you are proposing a Tier certified IC engine manufactured on and after July 11, 2005 or an emergency standby IC engine do not answer questions 17 through 27.

16. Testing schedule (for emergency standby IC engines only): _____ hrs/day _____ hrs/mon _____ hrs/qtr _____ hrs/yr
 17. Maximum daily operation: _____ hrs/day 18. Maximum annual operation: _____ hrs/yr **Note:** These operational limits will be placed in the permit.
 19. Will CO emissions be limited to a specific ppmvd (i.e. 49 or 23 ppmvd)? Yes No 20. What will the CO emissions limit be? _____ ppmvd
 21. Will CO emissions be reduced by 70% or more? Yes No
 22. Will a CEMS (Continuous Emissions Monitoring System) be used to measure pollutants in the IC engine exhaust stream? Yes No
 23. Will a CPMS (Continuous Parameters Monitoring System) be used to measure parameters of the IC engine exhaust stream? Yes No
 24. Will the IC engine be equipped with an oxidation catalyst? Yes No
 25. If applicable, will the oxidation catalyst be equipped with a temperature measurement system to ensure it is operating properly? Yes No
 26. Will the IC engine be equipped with a diesel particulate filter? Yes No
 27. If applicable, will the diesel particulate filter be equipped with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached? Yes No



Please see instructions on page 2 before filling out the form.

IDENTIFICATION

| | | | |
|-------------------------------|--|---------------------------------|--|
| 1. Company Name | | 2. Facility Name: | |
| Northwest Pipeline LLC | | Soda Springs Compressor Station | |
| 3. Brief Project Description: | Natural Gas Transmission Tier I Renewal Unit 4 | | |

IC ENGINE DESCRIPTION AND SPECIFICATIONS

4. Type of unit: New unit Unpermitted existing unit Modification to an existing permitted unit? Permit number: _____
 Full-time operation (non-emergency standby use)?
 Emergency standby use only (operation limited to 100 hrs/yr for maintenance and testing and emergency use only)?
 Emergency fire pump use only?
 Stationary test cell/stand operation only (as defined in NSPS Subpart ZZZZ)?
 National security operation only (as defined in NSPS Subpart ZZZZ)?
 Institutional emergency standby IC engine (as defined in NSPS Subpart ZZZZ)?

IC ENGINE SPECIFICATIONS

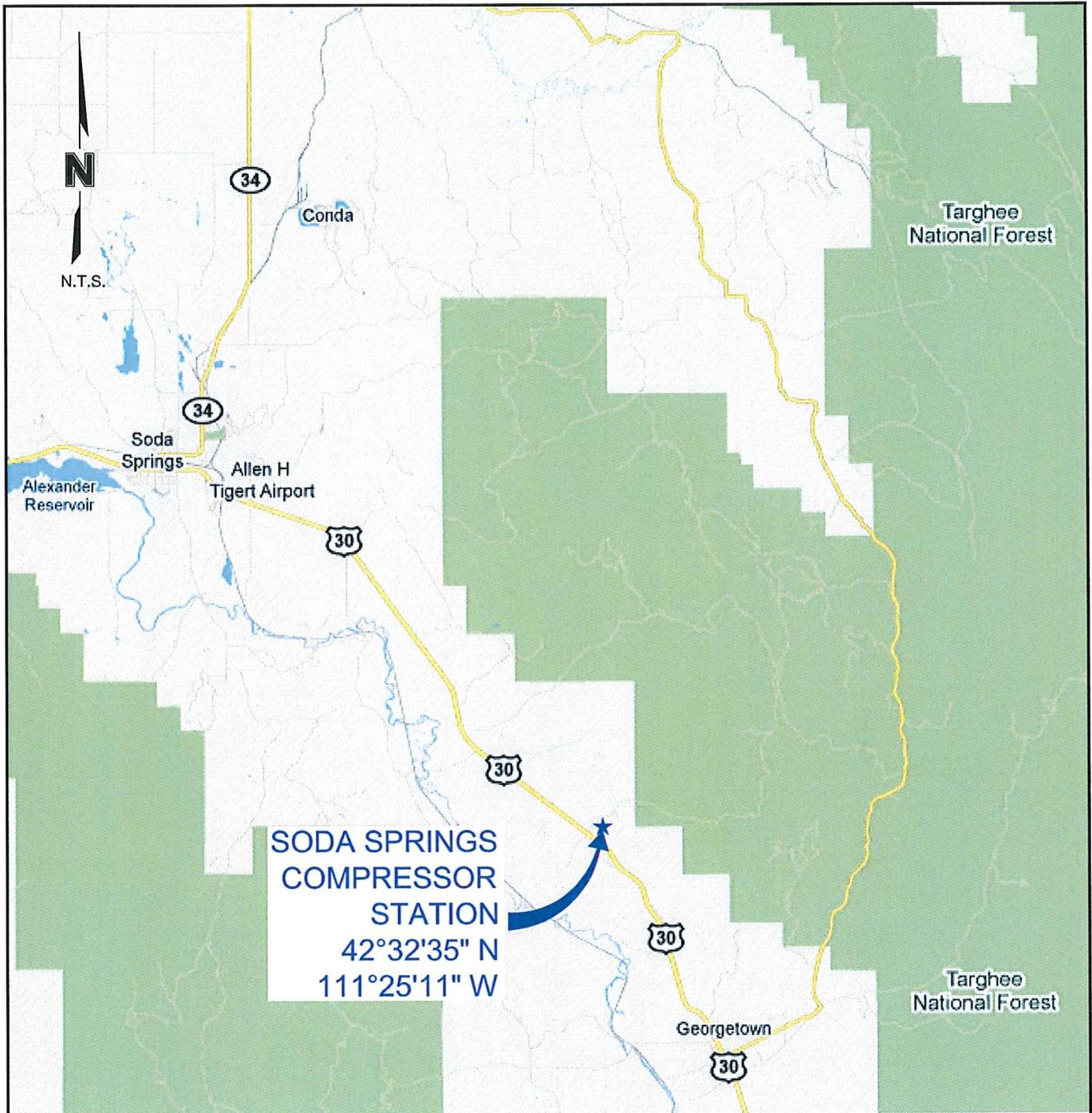
Questions 5 through 15 apply to all IC engines.

5. IC Engine Manufacturer: Dresser-Rand Clark 6. Model: TCVA-16 7. Date manufactured: 1969 8. Model year: 1969
 9. Date of installation (if an existing IC engine): 1969 10. IC Engine cylinder displacement: _____ liters per cylinder
 11. Maximum rated horsepower (per the data plate/manufacture specifications): 6000 bhp
 12. EPA Certification: Tier certification number _____ or None/not tier certified
 13. Ignition type: Spark Compression
 14. Fuel combusted in the IC engine? Distillate fuel oil Natural gas/LNG LPG/propane
 If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)
 15. IC engine exhaust stack parameters: Diameter 18 inches Height 40.0 feet Temperature 711 °F Flow rate 51500 acfm

IC ENGINE EMISSIONS PARAMETERS

Questions 16 through 27 apply to full-time non-Tier certified IC engines or Tier certified IC engines manufactured prior to July 11, 2005. If you are proposing a Tier certified IC engine manufactured on and after July 11, 2005 or an emergency standby IC engine do not answer questions 17 through 27.

16. Testing schedule (for emergency standby IC engines only): _____ hrs/day _____ hrs/mon _____ hrs/qtr _____ hrs/yr
 17. Maximum daily operation: _____ hrs/day 18. Maximum annual operation: _____ hrs/yr **Note:** These operational limits will be placed in the permit.
 19. Will CO emissions be limited to a specific ppmvd (i.e. 49 or 23 ppmvd)? Yes No 20. What will the CO emissions limit be? _____ ppmvd
 21. Will CO emissions be reduced by 70% or more? Yes No
 22. Will a CEMS (Continuous Emissions Monitoring System) be used to measure pollutants in the IC engine exhaust stream? Yes No
 23. Will a CPMS (Continuous Parameters Monitoring System) be used to measure parameters of the IC engine exhaust stream? Yes No
 24. Will the IC engine be equipped with an oxidation catalyst? Yes No
 25. If applicable, will the oxidation catalyst be equipped with a temperature measurement system to ensure it is operating properly? Yes No
 26. Will the IC engine be equipped with a diesel particulate filter? Yes No
 27. If applicable, will the diesel particulate filter be equipped with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached? Yes No



Source: 2010 Google Maps



IDAHO

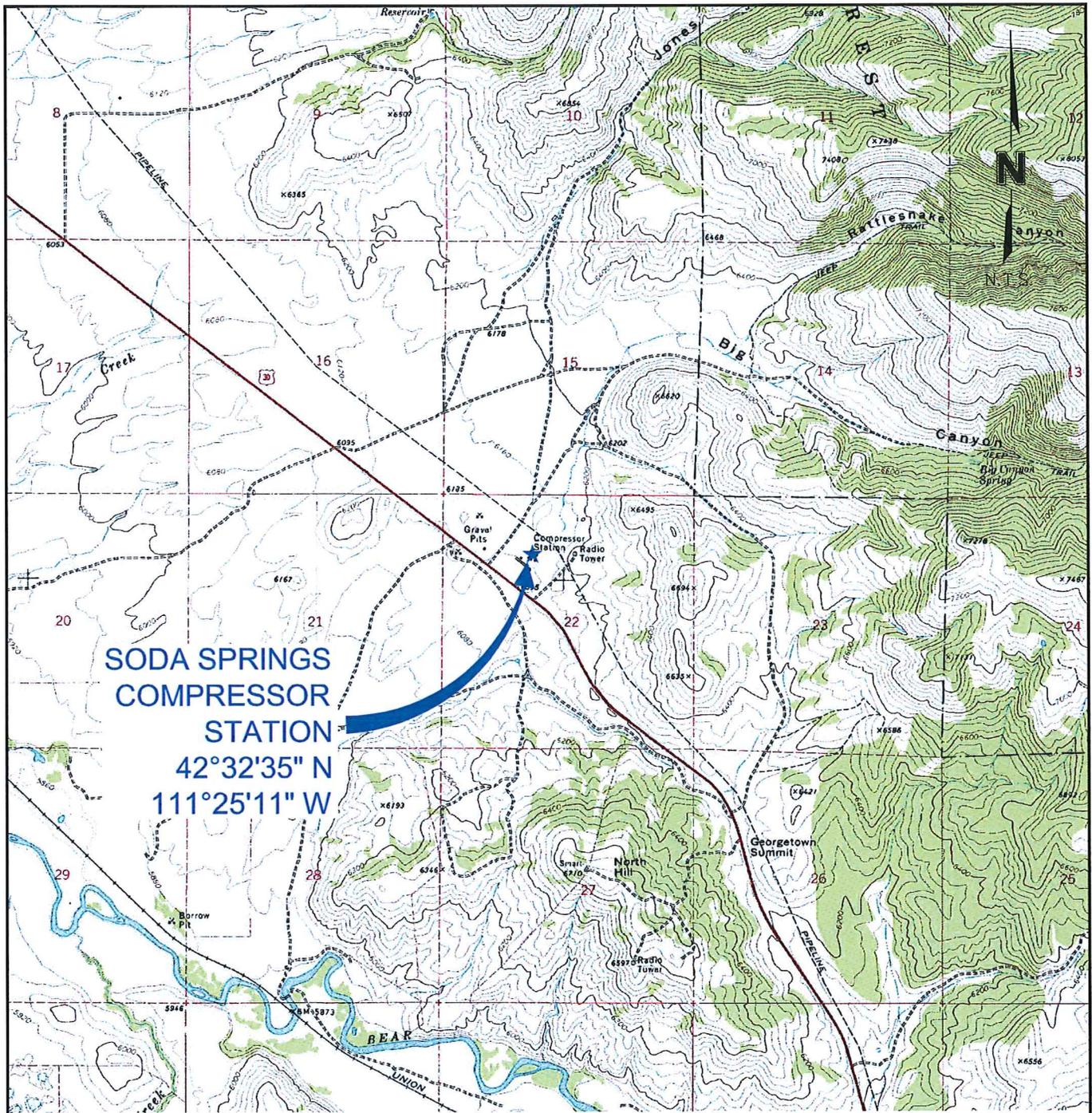
PROJECT: 010-1342
 DRAWN BY: BLM
 DATE: 09.15.10

SODA SPRINGS COMPRESSOR STATION
 SITE LOCATION MAP
 NORTHWEST PIPELINE GP
 SENW, SEC 22, T 10 S, R 43 E
 BEAR LAKE COUNTY, IDAHO



4690 TABLE MOUNTAIN DRIVE
 SUITE 200
 GOLDEN, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

FIGURE
 1

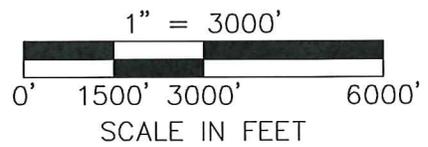


**SODA SPRINGS
COMPRESSOR
STATION**
42°32'35" N
111°25'11" W

Source: USGS Fossil Canyon 7.5 Minute Quadrangle



IDAHO



| | |
|-----------|----------|
| PROJECT: | 010-1342 |
| DRAWN BY: | BLM |
| DATE: | 09.15.10 |

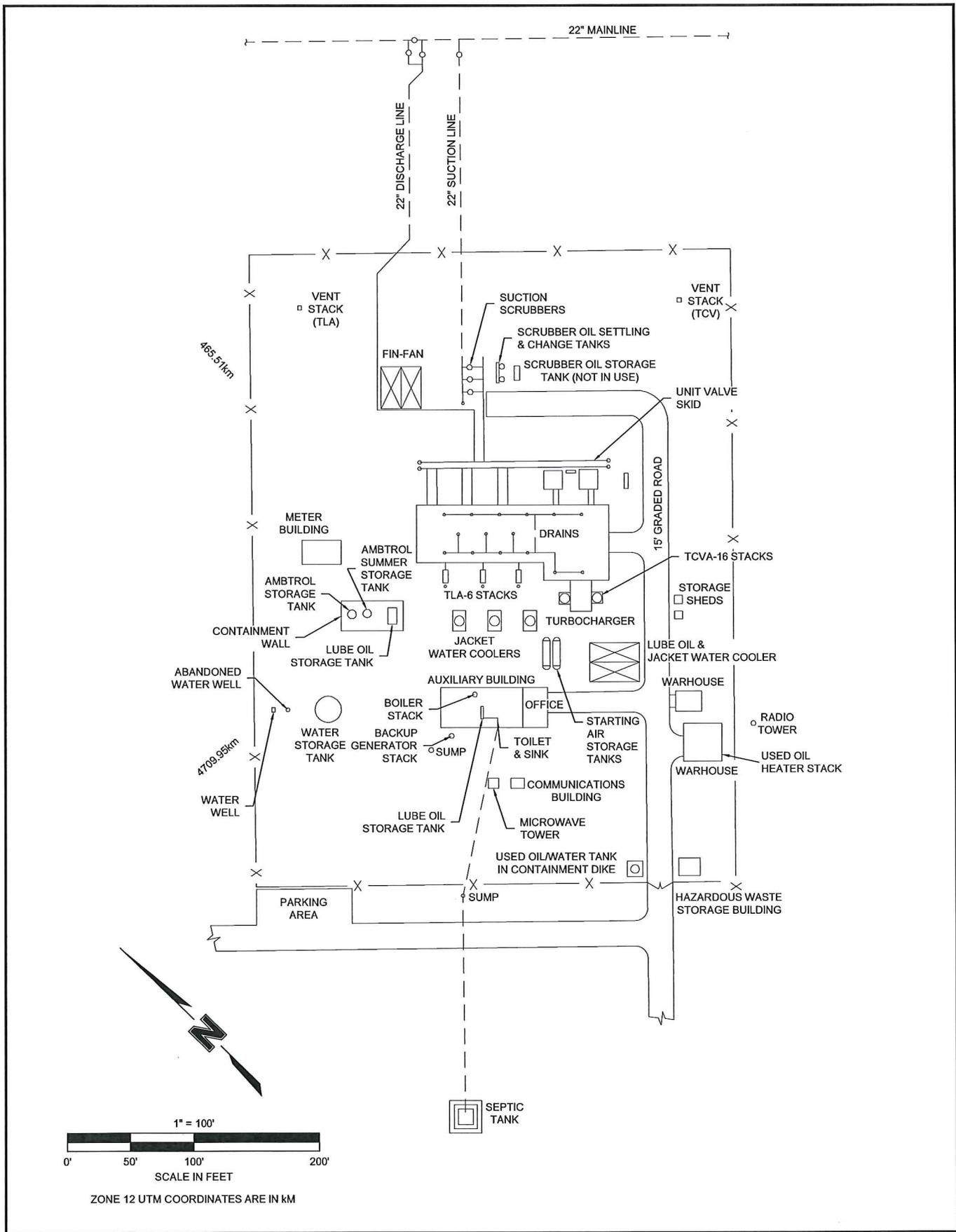
SODA SPRINGS COMPRESSOR STATION
TOPOGRAPHY LOCATION MAP
NORTHWEST PIPELINE GP
SE NW, SEC 22, T 10 S, R 43 E
BEAR LAKE COUNTY, IDAHO



4690 TABLE MOUNTAIN DRIVE
SUITE 200
GOLDEN, CO 80403
TEL 303.237.2072
FAX 303.237.2659

FIGURE

2



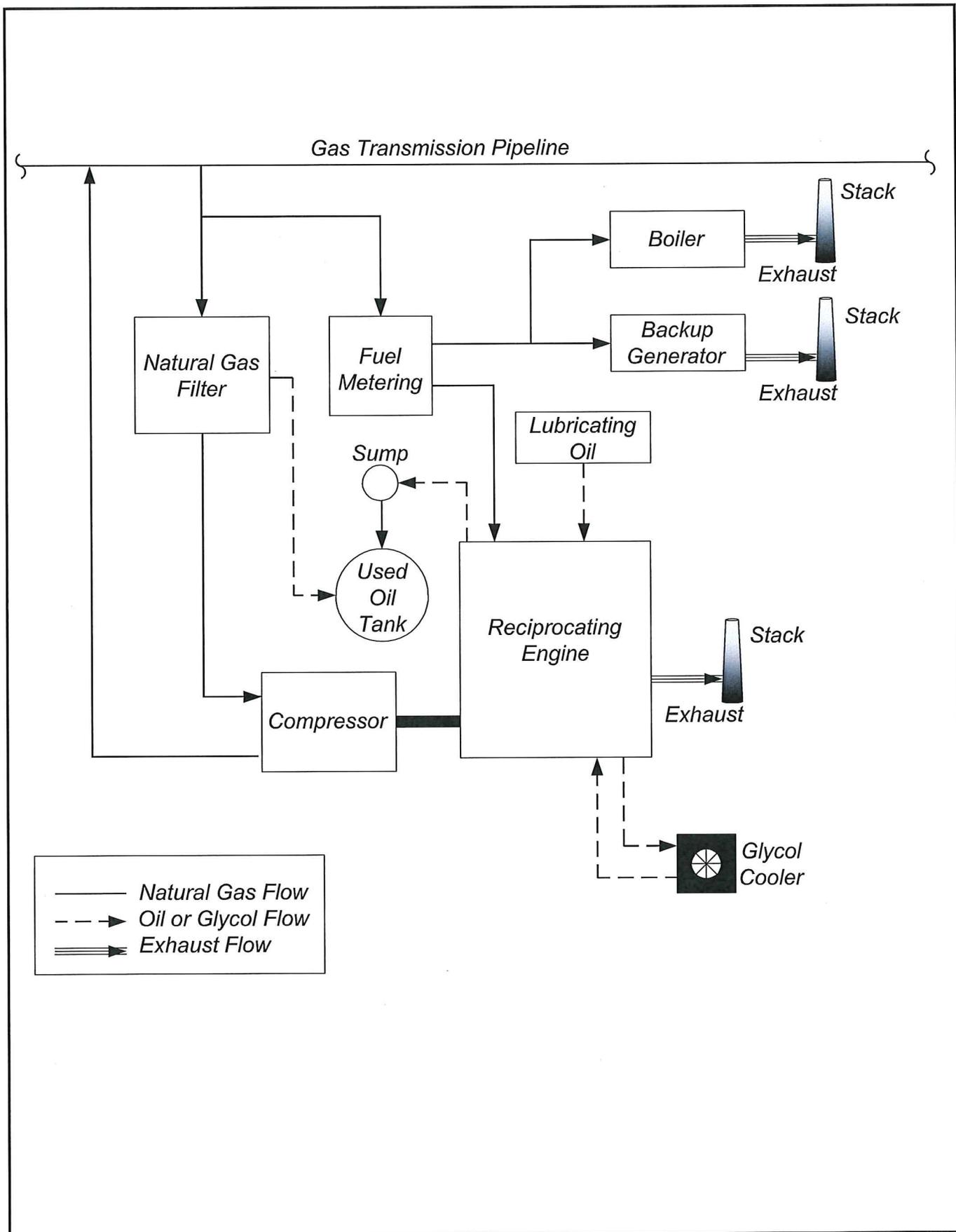
PROJECT: 010-1342
 DRAWN BY: BLM
 DATE: 09.15.10

SODA SPRINGS COMPRESSOR STATION
 FACILITY DIAGRAM
 NORTHWEST PIPELINE GP
 SENW, SEC 22, T 10 S, R 43 E
 BEAR LAKE COUNTY, IDAHO

OLSSON ASSOCIATES
 4690 TABLE MOUNTAIN DRIVE
 SUITE 200
 GOLDEN, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

FIGURE
3

DWG: F:\Projects\010-1342\MUNI\Exhibits\Soda Springs\101342_SODA SPRINGS_FACILITY_Fig3.dwg
 DATE: Sep 15, 2010 4:10pm XREFS:



PROJECT: 010-1342
 DRAWN BY: BLM
 DATE: 09.15.10

SODA SPRINGS COMPRESSOR STATION
 PROCESS FLOW DIAGRAM
 NORTHWEST PIPELINE GP
 SENW, SEC 22, T 10 S, R 43 E
 BEAR LAKE COUNTY, IDAHO

OLSSON
 ASSOCIATES

4690 TABLE MOUNTAIN DRIVE
 SUITE 200
 GOLDEN, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

FIGURE
 4

DWG: F:\Projects\010-1342\MUNI\Exhibits\Soda Springs\101342_SODA SPRINGS_PROCESS_Fig#4.dwg
 DATE: Sep 15, 2010 4:09pm XREFS:



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
 4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: **Northwest Pipeline LLC**
 Facility Name: **Soda Springs Compressor Station**
 Facility ID No.: **007-00008**
 Brief Project Description: **Tier I Permit Renewal**

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES

| 1. Emissions units | 2. Stack ID | 3. | | | | | | | | | | | |
|--------------------------------|----------------|--------------------------------|-------|-----------------|------|-----------------|----------|-------|--------|-------|-------|-------|------|
| | | PM ₁₀ | | SO ₂ | | NO _x | | CO | | VOC | | Lead | |
| | | lb/hr | T/yr | lb/hr | T/yr | lb/hr | T/yr | lb/hr | T/yr | lb/hr | T/yr | lb/hr | T/yr |
| Point Source(s) | | | | | | | | | | | | | |
| Unit 1, TLA-6 Engine | Unit 1 | 1.02 | 4.49 | 0.01 | 0.05 | 63.22 | 276.90 | 4.81 | 21.07 | 2.55 | 11.15 | | |
| Unit 2, TLA-6 Engine | Unit 2 | 1.02 | 4.49 | 0.01 | 0.05 | 63.22 | 276.90 | 4.81 | 21.07 | 2.55 | 11.15 | | |
| Unit 3, TLA-6 Engine | Unit 3 | 1.02 | 4.49 | 0.01 | 0.05 | 63.22 | 276.90 | 4.81 | 21.07 | 2.55 | 11.15 | | |
| Unit 4, TCVA-16 Engine | Unit 4 | 0.75 | 3.27 | 0.05 | 0.20 | 200.28 | 877.23 | 38.41 | 168.24 | 9.42 | 41.26 | | |
| Boiler 3.3 MMBtu/hr | | (Insignificant Emissions Unit) | | | | | | | | | | | |
| Back-up Generator 600 hp | | (Insignificant Emissions Unit) | | | | | | | | | | | |
| Warehouse heater 70,000 Btu/hr | | (Insignificant Emissions Unit) | | | | | | | | | | | |
| Shop heater 195,000 Btu/hr | | (Insignificant Emissions Unit) | | | | | | | | | | | |
| Fuel gas heater 500,000 Btu/hr | | (Insignificant Emissions Unit) | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Total | | 3.81 | 16.74 | 0.08 | 0.37 | 389.94 | 1,707.94 | 52.84 | 231.44 | 17.07 | 74.71 | | |

**Soda Springs Compressor Station
Emission Summary**

Potential to Emit

| Equipment | NOx | CO | VOC | SO₂ | PM | HAPs |
|-----------------------------------|----------------|---------------|--------------|-----------------------|--------------|--------------|
| Unit 1 Dresser-Rand Clark TLA-6 | 276.90 | 21.07 | 11.15 | 0.05 | 4.49 | 7.39 |
| Unit 2 Dresser-Rand Clark TLA-6 | 276.90 | 21.07 | 11.15 | 0.05 | 4.49 | 7.39 |
| Unit 3 Dresser-Rand Clark TLA-6 | 276.90 | 21.07 | 11.15 | 0.05 | 4.49 | 7.39 |
| Unit 4 Dresser-Rand Clark TCVA-16 | 877.23 | 168.24 | 41.26 | 0.20 | 3.27 | 27.35 |
| TOTAL tons per year | 1707.94 | 231.44 | 74.71 | 0.37 | 16.74 | 49.52 |

**Northwest Pipeline
Soda Springs Compressor Station
Natural Gas 2-Stroke Lean Burn Engine**

| | | | |
|---------------------|--------------------|----------------|------------|
| Source ID | Unit 1 Engine | Stack Height | 25 ft |
| Description | Unit 1 Engine | Stack Temp. | 745 deg F |
| Manufacturer | Dresser-Rand Clark | Stack Flow | 19238 acfm |
| Model | Clark TLA-6 | Stack Velocity | ft/min |
| Serial # | 73543 | Stack Base | ft AMSL |
| Manufacture Date | Unknown | | |
| Operation Date | 1956 | | |
| Emission Control | None | Latitude | deg |
| | | Longitude | deg |
| | | or | |
| Fuel Heat Value | 1040 Btu/scf | UTM Zone | |
| Design Output | 1700 hp | UTM Northing | 4709940 m |
| Site Output | 1701 hp | UTM Easting | 465540 m |
| Potential Operation | 8760 hr/yr | Datum | |
| Potential Heat Rate | 12473 Btu/hp-hr | | |
| Potential Heat Rate | 21.22 MMBtu/hr | | |
| Potential Fuel Use | 20400 scf/hr | | |
| Potential Fuel Use | 178.70 MMscf/yr | | |

Potential to Emit

| Pollutant | CAS Number | Emission Factor (lb/MMBtu) | Emission Factor (g/hp-hr) | (lb/hr) | (lb/yr) | (ton/yr) | Source of Emission Factor |
|---------------------------|------------|----------------------------|---------------------------|-------------|-----------------|-------------|---------------------------|
| NOx | | -- | 16.86 | 63.22 | 553807.20 | 276.90 | Stack Test |
| CO | | -- | 1.28 | 4.81 | 42135.60 | 21.07 | Stack Test |
| VOC | | 0.12 | | 2.55 | 22302.26 | 11.15 | AP-42 |
| SO2 | | 0.000588 | | 0.01 | 109.28 | 0.05 | AP-42 |
| PM | | 0.04831 | | 1.02 | 8978.52 | 4.49 | AP-42 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.000 | | 0.00 | 12.32 | 0.01 | AP-42 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.000 | | 0.00 | 9.79 | 0.00 | AP-42 |
| 1,3-Butadiene | 106-99-0 | 0.001 | | 0.02 | 152.40 | 0.08 | AP-42 |
| 1,3-Dichloropropene | 542-75-6 | 0.000 | | 0.00 | 8.14 | 0.00 | AP-42 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.001 | | 0.02 | 157.23 | 0.08 | AP-42 |
| 2-Methylnaphthalene | 91-57-6 | 0.000 | | 0.00 | 3.98 | 0.00 | AP-42 |
| Acenaphthene | 83-32-9 | 0.000 | | 0.00 | 0.25 | 0.00 | AP-42 |
| Acenaphthylene | 208-96-8 | 0.000 | | 0.00 | 0.59 | 0.00 | AP-42 |
| Acetaldehyde | 75-07-0 | 0.008 | | 0.16 | 1442.21 | 0.72 | AP-42 |
| Acrolein | 107-02-8 | 0.008 | | 0.17 | 1445.93 | 0.72 | AP-42 |
| Anthracene | 120-12-7 | 0.000 | | 0.00 | 0.13 | 0.00 | AP-42 |
| Benz(a)anthracene | 56-55-3 | 0.000 | | 0.00 | 0.06 | 0.00 | AP-42 |
| Benzene | 71-43-2 | 0.002 | | 0.04 | 360.55 | 0.18 | AP-42 |
| Benzo(a)pyrene | 50-32-8 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(b)fluoranthene | 205-99-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(e)pyrene | 192-97-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(g,h,i)perylene | 191-24-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(k)fluoranthene | 205-82-3 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Biphenyl | 92-52-4 | 0.000 | | 0.00 | 0.73 | 0.00 | AP-42 |
| Carbon Tetrachloride | 56-23-5 | 0.000 | | 0.00 | 11.28 | 0.01 | AP-42 |
| Chlorobenzene | 108-90-7 | 0.000 | | 0.00 | 8.25 | 0.00 | AP-42 |
| Chloroform | 67-66-3 | 0.000 | | 0.00 | 8.75 | 0.00 | AP-42 |
| Chrysene | 218-01-9 | 0.000 | | 0.00 | 0.12 | 0.00 | AP-42 |
| Ethylbenzene | 100-41-4 | 0.000 | | 0.00 | 20.07 | 0.01 | AP-42 |
| Ethylene Dibromide | 106-93-4 | 0.000 | | 0.00 | 13.64 | 0.01 | AP-42 |
| Fluoranthene | 206-44-0 | 0.000 | | 0.00 | 0.07 | 0.00 | AP-42 |
| Fluorene | 86-73-7 | 0.000 | | 0.00 | 0.31 | 0.00 | AP-42 |
| Formaldehyde | 50-00-0 | 0.055 | | 1.17 | 10259.04 | 5.13 | AP-42 |
| Indeno(1,2,3-c,d)pyrene | 193-39-5 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Methanol | 67-56-1 | 0.002 | | 0.05 | 460.91 | 0.23 | AP-42 |
| Methylene Chloride | 75-09-2 | 0.000 | | 0.00 | 27.32 | 0.01 | AP-42 |
| n-Hexane | 110-54-3 | 0.000 | | 0.01 | 82.70 | 0.04 | AP-42 |
| Naphthalene | 91-20-3 | 0.000 | | 0.00 | 17.90 | 0.01 | AP-42 |
| PAH | | 0.000 | | 0.00 | 24.90 | 0.01 | AP-42 |
| Perylene | 198-55-0 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Phenanthrene | 85-01-8 | 0.000 | | 0.00 | 0.66 | 0.00 | AP-42 |
| Phenol | 108-95-2 | 0.000 | | 0.00 | 7.82 | 0.00 | AP-42 |
| Pyrene | 129-00-0 | 0.000 | | 0.00 | 0.11 | 0.00 | AP-42 |
| Styrene | 100-42-5 | 0.000 | | 0.00 | 10.18 | 0.01 | AP-42 |
| Toluene | 108-88-3 | 0.001 | | 0.02 | 178.98 | 0.09 | AP-42 |
| Vinyl Chloride | 75-01-4 | 0.000 | | 0.00 | 4.59 | 0.00 | AP-42 |
| Xylenes | 1330-20-7 | 0.000 | | 0.01 | 49.81 | 0.02 | AP-42 |
| Total HAPs | | | | 1.69 | 14781.77 | 7.39 | |

AP-42: EPA AP-42, Volume I, Fifth Edition, July 2000, Table 3.2-1.

**Northwest Pipeline
Soda Springs Compressor Station
Natural Gas 2-Stroke Lean Burn Engine**

| | | | |
|---------------------|---------------------------|----------------|-------------------|
| Source ID | <u>Unit 2 Engine</u> | Stack Height | <u>25 ft</u> |
| Description | <u>Unit 2 Engine</u> | Stack Temp. | <u>745 deg F</u> |
| Manufacturer | <u>Dresser-Rand Clark</u> | Stack Flow | <u>19238 acfm</u> |
| Model | <u>Clark TLA-6</u> | Stack Velocity | <u>ft/min</u> |
| Serial # | <u>73544</u> | Stack Base | <u>ft AMSL</u> |
| Manufacture Date | <u>Unknown</u> | | |
| Operation Date | <u>1956</u> | Latitude | <u>deg</u> |
| Emission Control | <u>None</u> | Longitude | <u>deg</u> |
| | | or | |
| Fuel Heat Value | <u>1040 Btu/scf</u> | UTM Zone | |
| Design Output | <u>1700 hp</u> | UTM Northing | <u>4709940 m</u> |
| Site Output | <u>1701 hp</u> | UTM Easting | <u>465550 m</u> |
| Potential Operation | <u>8760 hr/yr</u> | Datum | |
| Potential Heat Rate | <u>12473 Btu/hp-hr</u> | | |
| Potential Heat Rate | <u>21.22 MMBtu/hr</u> | | |
| Potential Fuel Use | <u>20400 scf/hr</u> | | |
| Potential Fuel Use | <u>178.70 MMscf/yr</u> | | |

Potential to Emit

| Pollutant | CAS Number | Emission Factor (lb/MMBtu) | Emission Factor (g/hp-hr) | (lb/hr) | (lb/yr) | (ton/yr) | Source of Emission Factor |
|---------------------------|------------|----------------------------|---------------------------|-------------|-----------------|---------------|---------------------------|
| NOx | | -- | 16.86 | 63.22 | 553807.20 | 276.90 | Stack Test |
| CO | | -- | 1.28 | 4.81 | 42135.60 | 21.07 | Stack Test |
| VOC | | 0.12 | | 2.55 | 22302.26 | 11.15 | AP-42 |
| SO2 | | 0.000588 | | 0.01 | 109.28 | 0.05 | AP-42 |
| PM | | 0.04831 | | 1.02 | 8978.52 | 4.49 | AP-42 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.000 | | 0.00 | 12.32 | 0.01 | AP-42 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.000 | | 0.00 | 9.79 | 0.00 | AP-42 |
| 1,3-Butadiene | 106-99-0 | 0.001 | | 0.02 | 152.40 | 0.08 | AP-42 |
| 1,3-Dichloropropene | 542-75-6 | 0.000 | | 0.00 | 8.14 | 0.00 | AP-42 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.001 | | 0.02 | 157.23 | 0.08 | AP-42 |
| 2-Methylnaphthalene | 91-57-6 | 0.000 | | 0.00 | 3.98 | 0.00 | AP-42 |
| Acenaphthene | 83-32-9 | 0.000 | | 0.00 | 0.25 | 0.00 | AP-42 |
| Acenaphthylene | 208-96-8 | 0.000 | | 0.00 | 0.59 | 0.00 | AP-42 |
| Acetaldehyde | 75-07-0 | 0.008 | | 0.16 | 1442.21 | 0.72 | AP-42 |
| Acrolein | 107-02-8 | 0.008 | | 0.17 | 1445.93 | 0.72 | AP-42 |
| Anthracene | 120-12-7 | 0.000 | | 0.00 | 0.13 | 0.00 | AP-42 |
| Benz(a)anthracene | 56-55-3 | 0.000 | | 0.00 | 0.06 | 0.00 | AP-42 |
| Benzene | 71-43-2 | 0.002 | | 0.04 | 360.55 | 0.18 | AP-42 |
| Benzo(a)pyrene | 50-32-8 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(b)fluoranthene | 205-99-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(e)pyrene | 192-97-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(g,h,i)perylene | 191-24-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(k)fluoranthene | 205-82-3 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Biphenyl | 92-52-4 | 0.000 | | 0.00 | 0.73 | 0.00 | AP-42 |
| Carbon Tetrachloride | 56-23-5 | 0.000 | | 0.00 | 11.28 | 0.01 | AP-42 |
| Chlorobenzene | 108-90-7 | 0.000 | | 0.00 | 8.25 | 0.00 | AP-42 |
| Chloroform | 67-66-3 | 0.000 | | 0.00 | 8.75 | 0.00 | AP-42 |
| Chrysene | 218-01-9 | 0.000 | | 0.00 | 0.12 | 0.00 | AP-42 |
| Ethylbenzene | 100-41-4 | 0.000 | | 0.00 | 20.07 | 0.01 | AP-42 |
| Ethylene Dibromide | 106-93-4 | 0.000 | | 0.00 | 13.64 | 0.01 | AP-42 |
| Fluoranthene | 206-44-0 | 0.000 | | 0.00 | 0.07 | 0.00 | AP-42 |
| Fluorene | 86-73-7 | 0.000 | | 0.00 | 0.31 | 0.00 | AP-42 |
| Formaldehyde | 50-00-0 | 0.055 | | 1.17 | 10259.04 | 5.13 | AP-42 |
| Indeno(1,2,3-c,d)pyrene | 193-39-5 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Methanol | 67-56-1 | 0.002 | | 0.05 | 460.91 | 0.23 | AP-42 |
| Methylene Chloride | 75-09-2 | 0.000 | | 0.00 | 27.32 | 0.01 | AP-42 |
| n-Hexane | 110-54-3 | 0.000 | | 0.01 | 82.70 | 0.04 | AP-42 |
| Naphthalene | 91-20-3 | 0.000 | | 0.00 | 17.90 | 0.01 | AP-42 |
| PAH | | 0.000 | | 0.00 | 24.90 | 0.01 | AP-42 |
| Perylene | 198-55-0 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Phenanthrene | 85-01-8 | 0.000 | | 0.00 | 0.66 | 0.00 | AP-42 |
| Phenol | 108-95-2 | 0.000 | | 0.00 | 7.82 | 0.00 | AP-42 |
| Pyrene | 129-00-0 | 0.000 | | 0.00 | 0.11 | 0.00 | AP-42 |
| Styrene | 100-42-5 | 0.000 | | 0.00 | 10.18 | 0.01 | AP-42 |
| Toluene | 108-88-3 | 0.001 | | 0.02 | 178.98 | 0.09 | AP-42 |
| Vinyl Chloride | 75-01-4 | 0.000 | | 0.00 | 4.59 | 0.00 | AP-42 |
| Xylenes | 1330-20-7 | 0.000 | | 0.01 | 49.81 | 0.02 | AP-42 |
| Total HAPs | | | | 1.69 | 14781.77 | 7.39 | |

AP-42: EPA AP-42, Volume I, Fifth Edition, July 2000, Table 3.2-1.

**Northwest Pipeline
Soda Springs Compressor Station
Natural Gas 2-Stroke Lean Burn Engine**

| | | | |
|---------------------|---------------------------|----------------|-------------------|
| Source ID | <u>Unit 3 Engine</u> | Stack Height | <u>25 ft</u> |
| Description | <u>Unit 3 Engine</u> | Stack Temp. | <u>745 deg F</u> |
| Manufacturer | <u>Dresser-Rand Clark</u> | Stack Flow | <u>19238 acfm</u> |
| Model | <u>Clark TLA-6</u> | Stack Velocity | <u>ft/min</u> |
| Serial # | <u>73545</u> | Stack Base | <u>ft AMSL</u> |
| Manufacture Date | <u>Unknown</u> | Latitude | <u>deg</u> |
| Operation Date | <u>1956</u> | Longitude | <u>deg</u> |
| Emission Control | <u>None</u> | or | |
| Fuel Heat Value | <u>1040 Btu/scf</u> | UTM Zone | |
| Design Output | <u>1700 hp</u> | UTM Northing | <u>4709930 m</u> |
| Site Output | <u>1701 hp</u> | UTM Easting | <u>465560 m</u> |
| Potential Operation | <u>8760 hr/yr</u> | Datum | |
| Potential Heat Rate | <u>12473 Btu/hp-hr</u> | | |
| Potential Heat Rate | <u>21.22 MMBtu/hr</u> | | |
| Potential Fuel Use | <u>20400 scf/hr</u> | | |
| Potential Fuel Use | <u>178.70 MMscf/yr</u> | | |

Potential to Emit

| Pollutant | CAS Number | Emission Factor (lb/MMBtu) | Emission Factor (g/hp-hr) | (lb/hr) | (lb/yr) | (ton/yr) | Source of Emission Factor |
|---------------------------|------------|----------------------------|---------------------------|-------------|-----------------|---------------|---------------------------|
| NOx | | -- | 16.86 | 63.22 | 553807.20 | 276.90 | Stack Test |
| CO | | -- | 1.28 | 4.81 | 42135.60 | 21.07 | Stack Test |
| VOC | | 0.12 | | 2.55 | 22302.26 | 11.15 | AP-42 |
| SO2 | | 0.000588 | | 0.01 | 109.28 | 0.05 | AP-42 |
| PM | | 0.04831 | | 1.02 | 8978.52 | 4.49 | AP-42 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.000 | | 0.00 | 12.32 | 0.01 | AP-42 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.000 | | 0.00 | 9.79 | 0.00 | AP-42 |
| 1,3-Butadiene | 106-99-0 | 0.001 | | 0.02 | 152.40 | 0.08 | AP-42 |
| 1,3-Dichloropropene | 542-75-6 | 0.000 | | 0.00 | 8.14 | 0.00 | AP-42 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.001 | | 0.02 | 157.23 | 0.08 | AP-42 |
| 2-Methylnaphthalene | 91-57-6 | 0.000 | | 0.00 | 3.98 | 0.00 | AP-42 |
| Acenaphthene | 83-32-9 | 0.000 | | 0.00 | 0.25 | 0.00 | AP-42 |
| Acenaphthylene | 208-96-8 | 0.000 | | 0.00 | 0.59 | 0.00 | AP-42 |
| Acetaldehyde | 75-07-0 | 0.008 | | 0.16 | 1442.21 | 0.72 | AP-42 |
| Acrolein | 107-02-8 | 0.008 | | 0.17 | 1445.93 | 0.72 | AP-42 |
| Anthracene | 120-12-7 | 0.000 | | 0.00 | 0.13 | 0.00 | AP-42 |
| Benz(a)anthracene | 56-55-3 | 0.000 | | 0.00 | 0.06 | 0.00 | AP-42 |
| Benzene | 71-43-2 | 0.002 | | 0.04 | 360.55 | 0.18 | AP-42 |
| Benzo(a)pyrene | 50-32-8 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(b)fluoranthene | 205-99-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(e)pyrene | 192-97-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(g,h,i)perylene | 191-24-2 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(k)fluoranthene | 205-82-3 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Biphenyl | 92-52-4 | 0.000 | | 0.00 | 0.73 | 0.00 | AP-42 |
| Carbon Tetrachloride | 56-23-5 | 0.000 | | 0.00 | 11.28 | 0.01 | AP-42 |
| Chlorobenzene | 108-90-7 | 0.000 | | 0.00 | 8.25 | 0.00 | AP-42 |
| Chloroform | 67-66-3 | 0.000 | | 0.00 | 8.75 | 0.00 | AP-42 |
| Chrysene | 218-01-9 | 0.000 | | 0.00 | 0.12 | 0.00 | AP-42 |
| Ethylbenzene | 100-41-4 | 0.000 | | 0.00 | 20.07 | 0.01 | AP-42 |
| Ethylene Dibromide | 106-93-4 | 0.000 | | 0.00 | 13.64 | 0.01 | AP-42 |
| Fluoranthene | 206-44-0 | 0.000 | | 0.00 | 0.07 | 0.00 | AP-42 |
| Fluorene | 86-73-7 | 0.000 | | 0.00 | 0.31 | 0.00 | AP-42 |
| Formaldehyde | 50-00-0 | 0.055 | | 1.17 | 10259.04 | 5.13 | AP-42 |
| Indeno(1,2,3-c,d)pyrene | 193-39-5 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Methanol | 67-56-1 | 0.002 | | 0.05 | 460.91 | 0.23 | AP-42 |
| Methylene Chloride | 75-09-2 | 0.000 | | 0.00 | 27.32 | 0.01 | AP-42 |
| n-Hexane | 110-54-3 | 0.000 | | 0.01 | 82.70 | 0.04 | AP-42 |
| Naphthalene | 91-20-3 | 0.000 | | 0.00 | 17.90 | 0.01 | AP-42 |
| PAH | | 0.000 | | 0.00 | 24.90 | 0.01 | AP-42 |
| Perylene | 198-55-0 | 0.000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Phenanthrene | 85-01-8 | 0.000 | | 0.00 | 0.66 | 0.00 | AP-42 |
| Phenol | 108-95-2 | 0.000 | | 0.00 | 7.82 | 0.00 | AP-42 |
| Pyrene | 129-00-0 | 0.000 | | 0.00 | 0.11 | 0.00 | AP-42 |
| Styrene | 100-42-5 | 0.000 | | 0.00 | 10.18 | 0.01 | AP-42 |
| Toluene | 108-88-3 | 0.001 | | 0.02 | 178.98 | 0.09 | AP-42 |
| Vinyl Chloride | 75-01-4 | 0.000 | | 0.00 | 4.59 | 0.00 | AP-42 |
| Xylenes | 1330-20-7 | 0.000 | | 0.01 | 49.81 | 0.02 | AP-42 |
| Total HAPs | | | | 1.69 | 14781.77 | 7.39 | |

AP-42: EPA AP-42, Volume I, Fifth Edition, July 2000, Table 3.2-1.

**Northwest Pipeline
Soda Springs Compressor Station
Natural Gas 2-Stroke Lean Burn Engine**

Source ID Unit 4 Engine
 Description Unit 4 Engine
 Manufacturer Dresser-Rand Clark
 Model TCVA-16
 Serial # 115016
 Manufacture Date Unknown
 Operation Date 1969
 Emission Control None

Fuel Heat Value 1040 Btu/scf
 Design Output 6000 hp
 Site Output 6311 hp
 Potential Operation 8760 hr/yr
 Potential Heat Rate 12438.47 Btu/hp-hr
 Potential Heat Rate 78.50 MMBtu/hr
 Potential Fuel Use 75480 scf/hr
 Potential Fuel Use 661.20 MMscf/yr

Stack Height 40 ft
 Stack Temp. 711 deg F
 Stack Flow 51500 acfm
 Stack Velocity ft/min
 Stack Base ft AMSL

Latitude _____ deg
 Longitude _____ deg
 or
 UTM Zone _____
 UTM Northing 4709920 m
 UTM Easting 465560 m
 Datum _____

Potential to Emit

| Pollutant | CAS Number | Emission Factor (lb/MMBtu) | Emission Factor (g/hp-hr) | (lb/hr) | (lb/yr) | (ton/yr) | Source of Emission Factor |
|---------------------------|------------|----------------------------|---------------------------|-------------|-----------------|---------------|---------------------------|
| NOx | | -- | 14.39 | 200.28 | 1754452.80 | 877.23 | Stack Test |
| CO | | -- | 2.76 | 38.41 | 336471.60 | 168.24 | Stack Test |
| VOC | | 0.12 | | 9.42 | 82518.36 | 41.26 | AP-42 |
| SO2 | | 0.000588 | | 0.05 | 404.34 | 0.20 | AP-42 |
| PM | | -- | 0.05 | 0.75 | 6543.72 | 3.27 | Stack Test |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.0001 | | 0.01 | 45.59 | 0.02 | AP-42 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.0001 | | 0.00 | 36.24 | 0.02 | AP-42 |
| 1,3-Butadiene | 106-99-0 | 0.0008 | | 0.06 | 563.88 | 0.28 | AP-42 |
| 1,3-Dichloropropene | 542-75-6 | 0.0000 | | 0.00 | 30.12 | 0.02 | AP-42 |
| 2,2,4-Trimethylpentane | 540-84-1 | 0.0008 | | 0.07 | 581.75 | 0.29 | AP-42 |
| 2-Methylnaphthalene | 91-57-6 | 0.0000 | | 0.00 | 14.72 | 0.01 | AP-42 |
| Acenaphthene | 83-32-9 | 0.0000 | | 0.00 | 0.91 | 0.00 | AP-42 |
| Acenaphthylene | 208-96-8 | 0.0000 | | 0.00 | 2.18 | 0.00 | AP-42 |
| Acetaldehyde | 75-07-0 | 0.0078 | | 0.61 | 5336.19 | 2.67 | AP-42 |
| Acrolein | 107-02-8 | 0.0078 | | 0.61 | 5349.94 | 2.67 | AP-42 |
| Anthracene | 120-12-7 | 0.0000 | | 0.00 | 0.49 | 0.00 | AP-42 |
| Benz(a)anthracene | 56-55-3 | 0.0000 | | 0.00 | 0.23 | 0.00 | AP-42 |
| Benzene | 71-43-2 | 0.0019 | | 0.15 | 1334.05 | 0.67 | AP-42 |
| Benzo(a)pyrene | 50-32-8 | 0.0000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Benzo(b)fluoranthene | 205-99-2 | 0.0000 | | 0.00 | 0.01 | 0.00 | AP-42 |
| Benzo(e)pyrene | 192-97-2 | 0.0000 | | 0.00 | 0.02 | 0.00 | AP-42 |
| Benzo(g,h,i)perylene | 191-24-2 | 0.0000 | | 0.00 | 0.02 | 0.00 | AP-42 |
| Benzo(k)fluoranthene | 205-82-3 | 0.0000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Biphenyl | 92-52-4 | 0.0000 | | 0.00 | 2.72 | 0.00 | AP-42 |
| Carbon Tetrachloride | 56-23-5 | 0.0001 | | 0.00 | 41.74 | 0.02 | AP-42 |
| Chlorobenzene | 108-90-7 | 0.0000 | | 0.00 | 30.53 | 0.02 | AP-42 |
| Chloroform | 67-66-3 | 0.0000 | | 0.00 | 32.39 | 0.02 | AP-42 |
| Chrysene | 218-01-9 | 0.0000 | | 0.00 | 0.46 | 0.00 | AP-42 |
| Ethylbenzene | 100-41-4 | 0.0001 | | 0.01 | 74.27 | 0.04 | AP-42 |
| Ethylene Dibromide | 106-93-4 | 0.0001 | | 0.01 | 50.47 | 0.03 | AP-42 |
| Fluoranthene | 206-44-0 | 0.0000 | | 0.00 | 0.25 | 0.00 | AP-42 |
| Fluorene | 86-73-7 | 0.0000 | | 0.00 | 1.16 | 0.00 | AP-42 |
| Formaldehyde | 50-00-0 | 0.0552 | | 4.33 | 37958.45 | 18.98 | AP-42 |
| Indeno(1,2,3-c,d)pyrene | 193-39-5 | 0.0000 | | 0.00 | 0.01 | 0.00 | AP-42 |
| Methanol | 67-56-1 | 0.0025 | | 0.19 | 1705.38 | 0.85 | AP-42 |
| Methylene Chloride | 75-09-2 | 0.0001 | | 0.01 | 101.08 | 0.05 | AP-42 |
| n-Hexane | 110-54-3 | 0.0004 | | 0.03 | 306.01 | 0.15 | AP-42 |
| Naphthalene | 91-20-3 | 0.0001 | | 0.01 | 66.22 | 0.03 | AP-42 |
| PAH | | 0.0001 | | 0.01 | 92.15 | 0.05 | AP-42 |
| Perylene | 198-55-0 | 0.0000 | | 0.00 | 0.00 | 0.00 | AP-42 |
| Phenanthrene | 85-01-8 | 0.0000 | | 0.00 | 2.43 | 0.00 | AP-42 |
| Phenol | 108-95-2 | 0.0000 | | 0.00 | 28.95 | 0.01 | AP-42 |
| Pyrene | 129-00-0 | 0.0000 | | 0.00 | 0.40 | 0.00 | AP-42 |
| Styrene | 100-42-5 | 0.0001 | | 0.00 | 37.68 | 0.02 | AP-42 |
| Toluene | 108-88-3 | 0.0010 | | 0.08 | 662.21 | 0.33 | AP-42 |
| Vinyl Chloride | 75-01-4 | 0.0000 | | 0.00 | 16.99 | 0.01 | AP-42 |
| Xylenes | 1330-20-7 | 0.0003 | | 0.02 | 184.29 | 0.09 | AP-42 |
| Total HAPs | | | | 6.24 | 54692.56 | 27.35 | |

AP-42: EPA AP-42, Volume I, Fifth Edition, July 2000, Table 3.2-1.



DEQ AIR QUALITY PROGRAM
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 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

AIR PERMIT APPLICATION

Revision 6
 10/7/09

For each box in the table below, CTRL+click on the blue underlined text for instructions and information.

| IDENTIFICATION | |
|---|--|
| 1. Company Name: Northwest Pipeline LLC | 2. Facility Name: Soda Springs Compressor Station |
| 3. Brief Project Description: Tier I permit renewal | |

| APPLICABILITY DETERMINATION |
|-----------------------------|
|-----------------------------|

| | |
|--|--|
| 4. List applicable subparts of the New Source Performance Standards (NSPS) (40 CFR part 60). Examples of NSPS affected emissions units include internal combustion engines, boilers, turbines, etc. The applicant must thoroughly review the list of affected emissions units. | List of applicable subpart(s): GG <input type="checkbox"/> Not Applicable |
| 5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) found in 40 CFR part 61 and 40 CFR part 63 . Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. EPA has a web page dedicated to NESHAP that should be useful to applicants. | List of applicable subpart(s): Subpart ZZZZ Subpart DDDDD <input type="checkbox"/> Not Applicable |
| 6. For each subpart identified above, conduct a complete a regulatory analysis using the instructions and referencing the example provided on the following pages. Note - Regulatory reviews must be submitted with sufficient detail so that DEQ can verify applicability and document in legal terms why the regulation applies. Regulatory reviews that are submitted with insufficient detail will be determined incomplete. | <input checked="" type="checkbox"/> A detailed regulatory review is provided (Follow instructions and example). <input type="checkbox"/> DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date. |

Federal Requirements Applicability Tier I Renewal

Northwest Pipeline LLC – Soda Springs Compressor Station
 Facility ID No. 007-00008 - Permit No. T1-2011.0064

A Federal Requirements Applicability review has been performed for Northwest Pipeline LLC Soda Springs Compressor Station. This review is a supplement to previous regulatory reviews performed for original Tier I Permit applications and will address recent applicable changes to Federal and State air regulations.

All regulated sources at the Northwest Pipeline Soda Springs Compressor Station site have remained unchanged since the most recent Tier I permit renewal and administrative amendment of June 27, 2014.

Regulated emission sources for the Soda Springs Compressor Station site are as follows:

REGULATED EMISSION SOURCES

| Permit Condition | Source Description | Emissions Control(s) |
|------------------|--|----------------------|
| 3.1-3.5 | <u>Unit 1, 2 & 3 Reciprocating engines</u> Manufacturer: Dresser-Rand Clark Model: TLA-6 Installed: 1956 Rated Capacity: 1,700 hp Burner Type: Natural Gas Internal Combustion Engine Fuel: Natural Gas Fuel Usage: 340 cfm | None |
| 3.1-3.5 | <u>Unit 4 Reciprocating engine</u> Manufacturer: Dresser-Rand Clark Model: TLA-6 Installed: 1969 Rated Capacity: 6,000 hp Burner Type: Natural Gas Internal Combustion Engine Fuel: Natural Gas Fuel Usage: 1,258 cfm | None |
| 2.1 – 2.4 | Fugitive Road Dust Sources | Reasonable Control |

*This table is taken directly from page 4, section 1.3 of the March 21, 2008 Tier I Amended Operating Permit, No. T1-2007.0215.

All insignificant sources at the Northwest Pipeline Soda Springs Compressor Station site have remained the same and have not been replaced or had any changes in maintenance or operation since last permitted. Section 5 (specifically Table 5.1) of the Idaho Department of Environmental Quality Tier I Operating Permit Administrative Amendment, March 21, 2008, certifies that the following sources are deemed insignificant:

INSIGNIFICANT EMISSION UNITS

| Emission Unit Description | Insignificant Activities IDAPA Citation Section 317.01 |
|--------------------------------------|---|
| Boiler, 3.3 MMBtu/hr | (b)(i)5 |
| Back-up generator** 600 hp | (b)(i)5 |
| Warehouse Heater, 70,000 Btu/hr | (b)(i)18 |
| Shop Heater, 195,000 Btu/hr | (b)(i)18 |
| Fuel Gas Heater | (b)(i)18 |
| Natural gas pipeline and fuel system | (b)(i)30 |

*This table is taken directly from page 14, section 5 of the March 21, 2008 Tier I Amended Operating Permit, No. T1-2007.0215.

** The facility refers to this engine as a standby generator for the station

TITLES OF REGULATIONS

FEDERAL REGULATIONS

| | |
|----------------------------|--|
| 40 CFR Part 52 | Approval and Promulgation of SIPs |
| 40 CFR Part 52.21(b-w) | Prevention of Significant Deterioration of Air Quality |
| 40 CFR Part 52, Subpart TT | SIP: Utah State |
| 40 CFR 60 | New Source Performance Standards (NSPS) |
| 40 CFR 61 | National Emission Standards for Hazardous Air Pollutants (NESHAPS) |
| 40 CFR 63 | National Emission Standards for Hazardous Air Pollutants for Source Categories |
| 40 CFR Part 70 | State Permit Programs |
| 40 CFR Part 70.6(a)(3) | Permit Program Monitoring Rules |
| 40 CFR Part 82 | Stratospheric Ozone Protection |

Federal Requirements Applicability

40 CFR Part 60 Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

NSPS Subpart Kb applies to storage vessels with a capacity greater than or equal to 75 cubic meters (m³) (19,800 gal) used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984.

Conclusion: The largest storage tank at the Soda Springs Compressor Station is 277 barrels (bbl) (11,634 gal) of lubrication oil. This volume is less than the NSPS Subpart Kb requirement, and the facility commenced operation prior to July 23, 1984; therefore, Subpart Kb does not apply.

40 CFR Part 60 Subpart KKK - Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants

NSPS Subpart KKK applies to equipment leak components at onshore natural gas processing plants that commenced construction after January 20, 1984. A natural gas processing plant is defined in Subpart KKK as any processing site engaged in the extraction of natural gas liquids from field gas, fractionation of mixed natural gas liquids to natural gas products, or both [40 CFR 60.631].

Conclusion: Soda Springs Compressor Station is a natural compressor station and it does not extract or fractionate natural gas liquids. Operation commenced prior to January 20, 1984; therefore, Subpart KKK does not apply.

40 CFR Part 60 Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions

NSPS Subpart LLL applies to facilities the following facilities that process natural gas: each sweetening unit and each sweetening unit followed by a sulfur recovery unit.

Conclusion: The Soda Springs Compressor Station does not operate natural gas sweetening units or sulfur recovery units; therefore, Subpart LLL does not apply.

40 CFR Part 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

NSPS Subpart JJJJ applies to stationary spark ignition internal combustion engines that commence construction after June 12, 2006, where the engines are manufactured:

- On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);
- On or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;
- On or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or
- On or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

Conclusion: Each of the stationary spark ignition internal combustion engines at the Soda Springs Compressor Station commenced construction prior to June 12, 2006; therefore, they are exempt from the requirements of 40 CFR NSPS Subpart JJJJ[§60.4230(a)(4)].

40 CFR Part 63 Subpart HH - National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities

National Emission Standard for Hazardous Air Pollutant (NESHAP) Subpart HH applies to oil and natural gas production facilities that are major and area sources of HAPs. A major source is defined as a stationary source that emits or has the potential to emit 10 tpy of any single HAP or 25 tpy of total HAPs, and an area source is any stationary source of HAPs that is not a major source [40 CFR 63.2].

For facilities that are major HAP sources this subpart applies to facilities that process, upgrade or store hydrocarbon liquids prior to the point of custody transfer or facilities that process, upgrade, or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user.

The affected sources for major sources of HAPs include the following:

- Each glycol dehydration unit;
- Each storage vessel with the potential for flash emissions;
- Compressors or ancillary equipment operating in volatile hazardous air pollutant service located at natural gas processing plants;

The affected sources for area sources of HAPs include the following:

- Each triethylene glycol (TEG) dehydration unit located at an oil and natural gas production facility.

Conclusion: The Soda Springs Compressor Station is a natural gas transmission compressor station and is a major source of HAPs. The facility does not meet the NESHAP definition of a natural gas production facility, there are no glycol dehydration units and there are no ancillary equipment operating in volatile hazardous air pollutant service, therefore, Subpart HH does not apply.

40 CFR Part 63 Subpart HHH - National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities

NESHAP Subpart HHH applies to owners and operators of natural gas transmission and storage facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company), and that are major sources of HAP emissions. The applicable affected source is each glycol dehydration unit. An owner or operator of a facility that does not contain a glycol dehydration unit is not subject to the requirements of this subpart.

Conclusion: The Soda Springs Compressor Station is a natural gas transmission compressor station and is a major source of HAPs, however, the facility does not operate a glycol dehydration unit, therefore, Subpart HHH does not apply [§63.1270(a) (b)& (c)].

40 CFR Part 61 – National Emission Standards for Hazardous Air Pollutants

The following table lists the status of Specific Part 61 Subparts that have been delegated unchanged to the state of Idaho. An “X” indicates the subpart has been delegated subject to all the conditions and limitations set forth in federal law, regulations, policy, guidance and determinations.

| 40 CFR Part 61, NESHAPS Subparts | IDAHO |
|--|-------|
| | IDEQ |
| A General Provisions | X |
| B Radon from Underground Uranium Mines | |
| C Beryllium | X |
| D Beryllium Rocket Motor Firing | X |
| E Mercury | X |
| F Vinyl Chloride | X |
| H Radionuclide other than Radon from Dept. of Energy Facilities | |
| I Radionuclide from Federal Facilities other than Nuclear Regulatory Commission Licensees and not covered by Subpart H | |
| J Equipment Leaks of Benzene | X |
| K Radionuclide from Elemental Phosphorus Plants | |
| L Benzene from Coke By-Product Recovery Plants | X |
| M Asbestos | |
| N Inorganic Arsenic from Glass Manufacturing Plants | X |
| O Inorganic Arsenic from Primary Copper Smelters | X |
| P Inorganic Arsenic emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities | X |
| Q Radon from Dept. of Energy Facilities | |
| R Radon from Phosphogypsum Stacks | |
| T Radon from Disposal Uranium Mill Tailings | |
| V Equipment Leaks (Fugitive Sources) | X |
| W Radon from Operating Mill Tailings | |
| Y Benzene from Benzene Storage Vessels | X |
| BB Benzene from Benzene Transfer Operations | X |
| FF Benzene Waste Operations | X |

Source: Electronic Code of Federal Regulations, 40 CFR Part 61, Subpart A General Provisions, Delegation Status for Part 61 Standards – EPA Region 10.

A review of the above listed delegated subparts for the state of Idaho was performed for the Soda Springs Compressor Station. Based upon station equipment, station emissions, and engineering judgment, only Subpart V Equipment Leaks (Fugitive Sources) was further reviewed to determine regulatory applicability. The provisions of Subpart V apply to a source that operates in volatile hazardous air pollutant (VHAP) service including pumps, compressors, pressure relief devices, valves, etc. Equipment operating in VHAP service is defined as a piece of equipment that either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight a volatile hazardous air pollutant (VHAP) as determined according to the provisions of §61.245(d).

Conclusion: Based upon the station equipment, emissions, natural gas composition and engineering judgment, the Soda Springs Compressor Station does not have equipment that processes or transfers a liquid or gas with 10% VHAP. Therefore, the provisions of Subpart V do not apply and the remaining delegated Subparts do not apply.

40 CFR Part 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines

NESHAP Subpart ZZZZ applies to stationary reciprocating internal combustion engines (RICE) at major or area sources of HAP emissions.

The Soda Springs Compressor Station operates the following RICE:

- Three Dresser-Rand Clark TLA-6 2SLB RICE with 1700 horsepower (HP) installed in 1956;
- A Dresser-Rand Clark TCVA-16 2SLB RICE with 6,000 HP installed in 1969;
- A emergency backup Caterpillar 4SLB G3412 RICE with 600 HP installed in 1995;

Applicability:

The three (3) 1,700 hp and one (1) 6,000 hp 2SLB RICE are considered existing stationary RICE and are not subject because:

- **The engines have a site rating greater than 500 hp, are at a major source of HAPs and commenced construction prior to June 12, 2006, as per § 63.6590 (a)(1)(i).**

The 600 hp 4SRB emergency backup RICE is subject because:

- **The engine has a site rating greater than 500 hp, is at a major source of HAPs, commenced construction prior to June 12, 2006, and is used for emergency purposes only. These regulations apply to the backup generator:**
 - **40 CFR 63.6605**
 - **40 CFR 63.6640(f)**
 - **40 CFR 63.6604**
 - **Only applies to CI engines. The backup generator at Soda Springs is an SI engine.**
 - **40 CFR 63.6650(h)**
 - **Only applies to engines contractually obligated to be available for more than 15 hours per calendar year. This does not apply to Soda Springs.**

Emission and Operating Limitations:

The three (3) 1,700 hp and the (1) 6,000 hp 2SLB RICE are not subject to any limitations under subpart ZZZZ.

The 600 hp emergency RICE is subject to the requirements as described below. The RICE is not subject to a numerical emission limitation.

§ 63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

40 CFR 63.6640(f)(2) If you own or operate an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. If you do not operate the engine according to the requirements in paragraphs (f)(2)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

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

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(iii) You may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be 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.

40 CFR Part 64 - Compliance Assurance Monitoring (CAM)

Part 64 applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit if the unit satisfies all of the following criteria:

- (1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or a surrogate thereof), other than an emission limitation or standard that is exempt under paragraph (b)(1) of this section;
- (2) The unit uses a control device to achieve compliance with any such emission limitation or standard; and
- (3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. For purposes of this paragraph, "potential pre-control device

emissions” shall have the same meaning as “potential to emit,” as defined in §64.1, except that emission reductions achieved by the applicable control device shall not be taken into account.

40 CFR 64.2(b)(1)(i) states that the requirements of this part do not apply to emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act.

Conclusion: The Soda Springs Compressor Station has a total of four regulated natural gas driven compressor engines as listed on page one of this review. None of the engines have add-on control devices to achieve compliance with an emission limit or standard. Therefore, Part 64 does not apply.

40 CFR Part 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, Institutional Boilers and Process Heaters

NESHAP Subpart DDDDD applies to Industrial Boilers and Process Heaters at major sources of HAP emissions.

The Soda Springs Compressor Station is a major source of HAPs and operates the following:

- 3.35 MMBtu/hr Boiler
- 0.5 MMBtu/hr Fuel Gas Heater

Applicability:

The 3.35 MMBtu/hr Boiler and 0.5 MMBtu/hr fuel gas heater are considered existing Boilers and are subject because:

- ***The boilers burn gas 1 fuels, have a heat input capacity of less than or equal to 5 MMBtu/hr and were installed prior to May 20, 2011.***

Emission and Operating Limitations:

The boilers do not have any emission limitations. However, Northwest Pipeline must comply with the work practice standards in Table 3 of Subpart DDDDD. Table 3 requires a bi-ennial tune-up for the 3.6 MMBtu/hr Boiler as specified in §63.7540. In addition, because the facility is a major source of HAP's, a one-time energy assessment must be conducted at the facility.

Testing and Initial Compliance Requirements:

The boiler maintenance and operation practices will be consistent with good air pollution control practices for minimizing emissions.

The boilers are not subject to any emission limitations, therefore, no emission testing is required.

Notifications, Reports, and Records:

On May 29, 2013, Northwest Pipeline LLC provided an initial notification of Applicability to EPA Region 10 and IDEQ for the boiler at the Soda Springs Compressor Station. The boiler tune-up and the energy assessment will be completed in 2015 and will be kept on file.

40 CFR Part 64 - Compliance Assurance Monitoring (CAM)

Part 64 applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit if the unit satisfies all of the following criteria:

- (1) The unit is subject to an emission limitation or standard for the applicable regulated air pollutant (or a surrogate thereof), other than an emission limitation or standard that is exempt under paragraph (b)(1) of this section;
- (2) The unit uses a control device to achieve compliance with any such emission limitation or standard; and
- (3) The unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source. For purposes of this paragraph, "potential pre-control device emissions" shall have the same meaning as "potential to emit," as defined in §64.1, except that emission reductions achieved by the applicable control device shall not be taken into account.

40 CFR 64.2(b)(1)(i) states that the requirements of this part do not apply to emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act.

Conclusion: The Soda Springs Compressor Station has a total of four regulated natural gas driven compressor engines as listed on page on one of this review. None of the engines have add-on control devices to achieve compliance with an emission limit or standard. Therefore, Part 64 does not apply.

40 CFR Part 98 - Mandatory Greenhouse Gas Reporting, Subpart A, Subpart C & Subpart W

Subpart A of the Mandatory Greenhouse Gas Reporting rule applies to General Provisions that define the purpose and scope, what types of facilities must report and establishes mandatory greenhouse gas (GHG) reporting requirements for owners and operators of facilities that directly emit GHG emissions.

Subpart C establishes reporting requirements for stationary fuel combustion sources. The subpart defines this source category as, "devices that combusts solid, liquid, or gaseous fuel, generally for the purposes of producing electricity, generating steam, or providing useful heat or energy for industrial, commercial, or institutional use, or reducing the volume of waste by removing combustible matter" [§98.30(a)]. The definition also states that portable equipment, emergency generators and emergency equipment, as defined in §98.6 are not included in Subpart C.

The rule requires monitoring, recordkeeping, and reporting for facilities where the aggregate maximum rated heat input capacity of the stationary fuel combustion units at the facility is 30 MMBtu/hr or greater, and the facility emits 25,000 metric tons (MT) carbon dioxide equivalent (CO₂e) or more per year in combined emissions from all stationary fuel combustion sources [§98.2(a)(3)].

On November 8, 2010, EPA signed a rule that finalized greenhouse gas (GHG) reporting requirements for the petroleum and natural gas industry under 40 CFR Part 98 Subpart W. Facilities must report GHG emissions if they meet the definition of one of the identified industry segments and emit 25,000 metric tons of carbon dioxide equivalent (MT CO₂e) or more per year in combined GHG emissions.

Onshore Natural Gas Transmission Compression is a Subpart W industry segment and, is defined as any stationary combination of compressors that move natural gas at elevated pressure from production fields or natural gas processing facilities in transmission pipelines to natural gas distribution pipelines or into storage.

Conclusion: The Soda Springs Compressor Station is subject to the requirements of 40 CFR Part 98 Subpart A, C & W. Actual fuel combustion estimates and associated emissions are performed annually. The aggregate maximum heat input capacity of the stationary fuel combustion units is greater than 30 MMBtu/hr and potential CO₂e emissions is greater than 25,000 MT. The facility meets the definition of the transmission compression industry segment and is subject to Subpart W if actual emissions from Subpart C sources and Subpart W sources exceed 25, 000 MT CO₂e. If the facility is subject to Subpart C or W the facility would be subject to Subpart A.