YAKIMA REGIONAL CLEAN AIR AGENCY

186 Iron Horse Court, Suite 101. Yakima, WA. 98901
Phone: (509) 834-2050 Fax: (509) 834-2060
Website: http://www.yakimacleanair.org

Filing Fee: $400.00*

***Pursuant to WAC 173-400-111(1) (e)-an application is not complete until the permit application filling fee required by YRCAA has been paid.**

OFFICAL USE ONLY

YRCAA NSR No: NSRP-06-CSWD-25 Date Fee Paid: 05/19/2025

Received by: EGR-email Filing Fee: **$400.00** ✓

☐ YRCAA is the lead agency for the SEPA process. Processing Fee $400.00

Review of the application will not begin, until the application filling fee is paid. A surcharge fee for the time required for preparing and processing the application for approval will be invoiced after the permit to operate is issued.

New Source Review (NSR) Application General

Stationary/Permanent Source

INSTALLATION OR ESTABLISHMENT OF NEW AIR CONTAMINANT SOURCES

NSR Application is Required for Construction, Installation or Establishment of an Air Pollution Source
Or
Replacement or Substantial Alteration of Emission Control Technology on an Air Pollution Source or Equipment

I. General Information:

BUSINESS NAME City of Selah Water Department

NATURE OF BUSINESS Municipal Water Supplier

MAILING ADDRESS 222 S. Rushmore Road, Selah WA 98942

FACILITY ADDRESS (if different): Intersection of Speyers Rd. and N. 5th Street, Selah WA 98942

PHONE and FAX NUMBERS (509) 698-7365 Email: Rocky.Wallace@selahwa.gov

TYPE OF PROCESS, EQUIPMENT, OR APPARATUS Emergency generator for municipal water well

LIST OF AIR CONTAMINANT(S) WHICH WILL BE PRODUCED AND/OR CONTROLLED

Generator exhaust containing NOx, CO, HC, and particulates (PM) in concentrations within the WA state and EPA standards for an emergency standby generator.

ESTIMATED STARTING DATE: June 2025

ESTIMATED COMPLETION DATE: Permanent Installation

Compliance with SEPA (State Environmental Policy Act) - Check One of the Options Below:

- ☐ A DNS or EIS has been Issued by Another Agency for this Project and a Copy is Attached.
- ☐ If no DNS or EIS Exists for this Project, a Completed Checklist for this Project and the SEPA Processing Fee are Attached. *YRCAA SEPA checklist is available by phone, or by our website.*
- ☐ The city/county has established an exemption for this project.
- ☒ I certify that the SEPA has been satisfied or this project is exempt:

4/30/2025 by [signature] City of Selah
Date *Government Agency*

Previous NSR/Air Permits Number issued by YRCAA for the Facility, if any
Backup Generator Registration Attached

Describe Input to Output Process (Attach drawings, schematics, prints, or block diagrams)
Generator Installation Drawings Attached

ESTIMATED COSTS: OF BASIC SOURCE EQUIPMENT $ 128,227

OF CONTAMINANT CONTROL APPARATUS $ Not Included in Purchase Order

Process: Production Output per Year (tons, pounds, etc)
Maximum Output per Hour (tons, pounds, etc)
Percentage of Production (%)

Unknown. Generator exhaust typical for generator rated for standby, emergency operation. Power outages expected to be erratic and not seasonal. Periodic testing/exercising of equipment will occur on a routine basis throughout the year.

Dec - Feb 25% Mar – May 25%
Jun - Aug 25% Sep – Nov 25%

Operating Schedule: Hrs/Day 0 Days/Wk 0 Wks/Yr 0

II. Emissions Estimations and Calculations:

1. Criteria Pollutants (gr/dscf, tons/yr, lbs/hr., ppm, etc.)

Particulate (PM_{10},$PM_{2.5}$) 9.5 mg/Nm³
Volatile Organic Compounds
Nitrogen Oxides 2129.1 mg/Nm³
Sulfur Oxides
Carbon Monoxide 301.5 mg/Nm³
Lead

2.

Toxic Air Pollutants (Name)	Quantity (in gr/dscf, tons/yr, lbs/hr. ppm, etc.)
Hydrocarbons	8.8 mg/Nm³

3. Fugitive Pollutants (Source) N/A — Quantity (in gr/dscf, tons/yr, lbs/hr. ppm, etc.)

4. Air Pollution Modeling
Results N/A
Computer Printout Attached? ☐Yes ☐No

III. Emission Data:

1. Stack
Height (Feet)_____ Inside Diameter (feet)_____
Gas Exit Temp (degrees F)_____ Gas Exit Velocity (ft/min)_____
Flow Rate (cfm)_____
Shared Stack? If a shared stack, identify process (es) or point(s) which share the stack.
Distance from Stack to Property Line _____

2. Discharge Point or points (if no stack or other than stack)
Height (feet) Approx 8.5 Inside Diameter (feet)_____
Gas Exit Temp (degrees F) 988 Gas Exit Velocity (ft/min)_____
Flow Rate (cfm) 3,605.5

Shared discharge point? If a shared discharge point, identify process (es) or point(s) which share the discharge point. No

Distance from discharge point to Property Line Approximately 15 ft

3. Fuel
Type Grade 2 Diesel % Sulfur 15%
% Ash_____ Unit of Measure (gal./cu.ft./etc.) Gal
BTU per Unit of Measure_____ Consumption Units per Year 30-40
Maximum Consumption Units per Hour 35 gal/hr at full load

4. Building Dimensions
Height (feet)_____ Length (feet)_____ Width (feet)_____

No new building involved in project. Existing wellhouse approximately 40'x25'

IV. Air Pollution Control Equipment: N/A

Baghouse

Type_____ Model #, Serial #_____

Efficiency _____ $PM_{2.5}$:_____ and PM_{10}:_____

Bag Height (feet)_____ Bag Diameter (feet) _____

Filter Area (feet squared)_____ Blower Flow Rate (cfm)_____

Filter Media_____ Dimensions (feet)_____

Discharge Area Dimensions (feet)_____

Cleaning Mechanism (shake) (air psi)_____

Other Data _____

Scrubber

Type_____ Model #, Serial #_____

Efficiency_____

Gas Differential Pressure (psi)_____ Liquor Differential Pressure (psi)_____

Liquor Flow (gpm)_____ Discharge Area Dimensions ($feet^2$)_____

Gas Flow (cfm)_____ Other Data_____

Cyclone

Type_____ Model #, Serial #_____

Efficiency _____ $PM_{2.5}$:_____ and PM_{10}:_____

Gas Flow (cfm)_____ Discharge Area Dimensions ($feet^2$) _____

Other Data _____

Precipitator

Type_____ Model #, Serial #_____

Efficiency_____

Gas Flow (cfm)_____ Gas Velocity (ft/sec)_____

Residence Time _____ Gas Differential Pressure (psi)_____

Precipitation Rate (ft/sec)_____ Discharge Area Dimensions ($feet^2$)_____

Other Data _____

Ad/Absorp

Type_____ Model #, Serial #_____

Efficiency_____

Gas Flow_____ Gas Velocity (ft/sec)_____

Gas Temp (degree F)_____ Bed Volume (ft^3)_____

Bed Dimensions (feet)_____ Capacity (hours)_____

Contaminant (lb/day)_____ Regeneration time (hours)_____

Other Type _____ Model #, Serial #_____

Efficiency _____

Gas Flow (cfm)_____ Discharge Area Dimensions (feet)_____

Other Data _____

V. Additional Information: Generator cut sheet attached.

1. Attach Related Information on Chemicals or Materials that will be emitted. (MSDS Sheets, Company Information, etc.)

   Note: Indicate how much quantity are used per MSDSs

   ☐ Yes ☐ No, if not why? _____

2. Fugitive Dust Control Plan (Attach if Necessary)
3. Attach Operation and Maintenance Manual of Pollution Control Equipment.

   ☐ Yes ☐ No, if not, why? _____
4. Attach Vendor Information or Manufacturer's Instructions on Pollution Control Equipment.

   ☐ Yes ☐ No, if not, why? _____

APPLICANT: I hereby certify that the information contained in this application, including supplemental forms and data, when required, is, to the best of my knowledge, complete and correct. I also agree to all fees for processing this permit and grant permission for YRCAA staff to enter the premises for inspection.

Signature Doug Wallace Date 4/30/2025

Title Public Works Director Date 4/30/2025

Name and Title of Individual Filling out Form:

Name (print) Robert Scott, P,E.

Signature _____

Name and Title of Contact Person, if Different than Above:

Name _____

Title _____

Name and Title of the Responsible Official for the permit, if Different than Above:

Name _____

Title _____

Yakima Regional Clean Air Agency
INSTRUCTIONS FOR PERMIT APPLICATION

Use this sheet as a checklist to determine when your application is substantially complete.

☞ Each PERMIT APPLICATION for the construction, installation or establishment of a new air contaminant source, or modification of existing air pollution source or control equipment or permit, needs to be accompanied by the following information to be considered complete:

Included	N/A	
☒	☐	Process flow sheets and equipment layout diagrams.
☒	☐	Control equipment manufacturer, model number, size, serial numbers (for each piece of control equipment).
☒	☐	Quantify average and maximum hourly throughput values, average yearly totals, and maximum concentrations for each pollutant.
☐	☒	Applicant's calculation of the kinds and amounts of emissions for each emission point, materials handling operation or fugitive category (both controlled and uncontrolled).
☒	☐	Plot plan including identification of proposed emission points to the atmosphere, distance to property boundaries, height of buildings and stack height above ground level.
☐	☒	Identification of raw materials and/or product specifications (physical and chemical properties) and typical ranges of operating conditions as related to each emission point (toxic air contaminants require a separate summary); Material Safety Data Sheets (MSDS) should be included in the PERMIT APPLICATION for all compounds used.
☐	☒	Identification of the methods/equipment proposed for prevention/control of emissions to the atmosphere.
☐	☒	Information sufficient to demonstrate the ability of the emission controls proposed as being consistent with those provided in the applicable regulations (BACT/NSPS/RACT/NESHAPS/LAER analysis). See attached worksheet for typical layout of BACT analysis information.
☐	☒	The kinds and amounts of emission offset credits proposed for assignment when operations are within a non-attainment boundary (see WAC 173-400-120 and 131).
☐	☒	Estimates of the proposed project ambient impact under average and least favorable conditions where pertinent to PSD (WAC 173-400-720) or Toxic Air Pollutants (WAC 173-460) requirements.
☐	☒	Additional information, evidence, or documentation as required by the Board of Directors, or the Control Officer, to show that the proposed project will meet federal, state and local air pollution control regulations.
☐	☒	For applications that include equipment that has previously been approved, authorized or registered, a lapse is considered to have occurred if the registration fees are delinquent for more than one calendar year or the source has not operated within five years prior to the receipt of any required PERMIT APPLICATION (WAC 173-400-110).
☐	☒	Applications that include previously approved or authorized equipment require that additional information regarding previous owners or approvals be provided so that YRCAA records can be updated. Equipment registered and/or approved for a given company cannot be authorized without a legal name change, purchase of company or equipment, or a legal contract or subcontract to do business with or for the approved source. Responsibility for operation of authorized equipment rests with the registered source.
☒	☐	All applications need to be accompanied with a completed SEPA checklist or SEPA determination. YRCAA may process the SEPA determination, if no other agency has done it. In this case a SEPA checklist with the proper fees must be submitted with the NSR application.

☞ The application transmittal shall conform to YRCAA review requirements wherever possible as detailed in the General Regulations for Air Pollution Sources (WAC 173-400).

☞ Each drawing, document, or other form of transmittal considered by the applicant to be proprietary and confidential must be suitably identified as confidential in red ink, and signed and dated by the applicant or its agent. Be aware that YRCAA follows the requirements in 40 CFR 2 for determination of confidentiality. YRCAA may not process company sensitive information as confidential.

☞ Orders of Approval (to construct, modify, or install) are issued for specific equipment or processes described in the application. Changes to the processes or control equipment are not allowed without new source review (Permit Application and Permit) if these changes result in an emission of a different type or an increase in emissions (WAC 173-400-110). Process equipment changes that result in decreased emissions require notification to YRCAA.

☞ The SIC code is identified as the four digit major group classification in the 1987 Standard Industrial Code Classification Manual listing of SIC codes can be obtained for free from the internet.

☞ Mail or deliver in person the completed application package to:

Yakima Regional Clean Air Agency
186 Iron Horse Court, Suite 101
Yakima, WA 98901-2303

☞ **Application fees must accompany application for the application to be considered complete. An invoice will be sent out for the Engineering review after final decision on the application. Make checks payable to "Yakima Regional Clean Air Agency" or "YRCAA".**

☞ **The PERMIT APPLICATION package submitted must be complete. All applications are screened for completeness before processing. Applicants submitting incomplete application packages will be notified of their incomplete status and may result in a delay in processing the application.**

Yakima Regional Clean Air Agency

PERMIT APPLICATION / NEW SOURCE REVIEW

BACT ANALYSIS WORKSHEET

Facility Name: City of Selah Well No. 6 and Zone 3 Booster Station **Date:** 4/29/25

CONTROL ALTERNATIVE	EMISSIONS [lbs/hr] & [tons/yr]	EMISSIONS REDUCTION (a) [tons/yr]	INSTALLED CAPITAL COST (b) [$]	TOTAL ANNUALIZED COST (c,g) [$]	AVERAGE COST EFFECTIVENESS OVER BASELINE (d) [$/ton]	INCREMENTAL COST EFFECTIVENESS (e) [$/ton]	ENERGY INCREASE OVER BASELINE (f) [mmBtu/yr]	TOXICS IMPACT [Yes/No]	ADVERSE ENVIRONMENTAL IMPACT [Yes/No]
1) No control proposed. Generator is designed to meet WA and EPA Emission Criteria for standby emergency generator									
2)									
3)									
4)									
5) Uncontrolled Baseline (worst case - no controls)									

(a) Emissions reduction over baseline control level.
(b) Installed capital cost relative to baseline.
(c) Total annualized cost (capital, direct, and indirect) of purchasing, installing, and operating the proposed control alternative. A capital recovery factor approach using a real interest rate (i.e., absent inflation) is used to express capital costs in present-day annual costs.
(d) Average cost effectiveness over baseline is equal to total annualized cost for the control option divided by the emissions reductions resulting from the uncontrolled baseline.
(e) The optional incremental cost effectiveness criterion is the same as the average cost effectiveness criteria except that the control alternative is considered relative to the next most stringent alternative rather than the baseline control alternative.
(f) Energy impacts are the difference in total project energy requirements with the control alternative uncontrolled baseline expressed in equivalent millions of Btus per year.
(g) Assumptions made on catalyst life may have a substantial affect upon cost effectiveness.

Notes:

The number of alternatives to be evaluated will vary depending on application.
Values for each variable should be provided as they are applicable. Use N/A if not applicable.
Emission rates are the expected or predicted emission rates.
Calculations should provide for a range of alternatives.
Emissions reduction should use estimated efficiency if actual efficiency is unknown - should so state.
Attach worksheets as necessary to substantiate above values.