



## Southwest Clean Air Agency

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July 22, 2011

Diana M. Gritten-MacDonald  
Manager Environmental and Regulatory Services  
Cowlitz County PUD  
961 12<sup>th</sup> Avenue  
PO Box 3007  
Longview, WA 98632

Subject: Notification of Emergency Generator Set Installation

Dear Ms. Gritten-MacDonald:

The Southwest Clean Air Agency (SWCAA) received your small unit notification (SUN) for the Cowlitz PUD's main office at 961 12<sup>th</sup> Avenue, Longview, Washington on July 13, 2011. For administrative and tracking purposes SWCAA has assigned tracking number SUN-004 to this notification. This notification was filed in accordance with SWCAA 400-072 and applies to the installation of one emergency service internal combustion engine. The new engine is identified as follows:

- (1) 755 bhp (standby) diesel-fired Cummins model QSX15-G9 engine to drive a 500 kW (standby) generator set. The engine will be EPA Tier 2 certified. The generator set is a Cummins model 500DFEK.

SWCAA has completed a review of your notification and the associated support information and has determined that it is sufficient as per the requirements of SWCAA 400-072(2). Once installed, affected equipment must maintain compliance with the requirements of SWCAA 400-072(4)(c) "**Emergency service internal combustion engines**". A copy of the relevant SWCAA 400-072 section is attached for your information.

Be advised that emission units installed pursuant to SWCAA 400-072 are subject to source registration and periodic inspection. Registration fees for this equipment will be invoiced consistent with SWCAA 400-100.

If you need further assistance or have any questions regarding these matters, please contact me at (360) 574-3058 extension 130.

Sincerely,

Paul T. Mairose  
Chief Engineer



## SWCAA 400-072 Emission Standards for Selected Small Source Categories

[Statutory Authority: Chapter 70.94.141 RCW. Original adoption 09-21-056 filed 10/15/09, effective 11/15/09.]

### (4) Source categories.

#### (c) Emergency service internal combustion engines.

- (i) **Applicability.** The provisions of this section apply to emergency service internal combustion engines with a rating of less than 1,000 horsepower (e.g., emergency generators, fire pumps, sewer lift stations, etc.).
- (ii) **Emission limits and standards.**
  - (A) Visible emissions from diesel fired engine exhaust stacks shall not exceed ten percent opacity for more than 3 minutes in any one hour period as determined in accordance with SWCAA Method 9 (See SWCAA 400, Appendix A). This limitation shall not apply during periods of cold start-up.
- (iii) **General requirements.**
  - (A) Liquid fueled engines shall only be fired on #2 diesel or biodiesel. Fuel sulfur content of liquid fuels shall not exceed 0.0015% by weight (15 ppmw). A fuel certification from the fuel supplier may be used to demonstrate compliance with this requirement.
  - (B) Gaseous fueled engines shall only be fired on natural gas or propane.
  - (C) Each compression ignition engine shall be EPA Tier certified and manufactured no earlier than January 1, 2008.
  - (D) Engine operation shall be limited to maintenance checks, readiness testing, and actual emergency use.
  - (E) Engine operation for maintenance checks and readiness testing shall not exceed 100 hours per year. Total engine operation shall not exceed 200 hours per year.
  - (F) Each engine shall be equipped with a nonresettable hourmeter for the purpose of documenting hours of operation.
  - (G) Engine exhaust shall be discharged vertically. Any device that obstructs or prevents vertical discharge is prohibited.
- (iv) **Monitoring and recordkeeping requirements.** The information listed below shall be recorded at the specified intervals, and maintained in a readily accessible form for a minimum of 3 years. With the exception of data logged by a computerized data acquisition system, each required record shall include the date and the name of the person making the record entry.
  - (A) Total hours of operation for each engine shall be recorded annually;
  - (B) Fuel sulfur certifications shall be recorded for each shipment of liquid fuel;
  - (C) Maintenance activities shall be recorded for each occurrence consistent with the provisions of 40 CFR 60.4214;
  - (D) Upset conditions that cause excess emissions shall be recorded for each occurrence; and
  - (E) All air quality related complaints received by the permittee and the results of any subsequent investigation or corrective action shall be recorded for each occurrence.
- (v) **Testing requirements.** None.

(vi) **Reporting requirements.**

- (A) All air quality related complaints received by the owner or operator shall be reported to SWCAA within three calendar days of receipt.
- (B) The owner or operator of an affected emergency engine shall report the following information to the Agency no later than March 15<sup>th</sup> for the preceding calendar year:
  - (I) Hours of engine operation; and
  - (II) Air emissions of criteria air pollutants, VOCs, and toxic air pollutants (TAPs).