



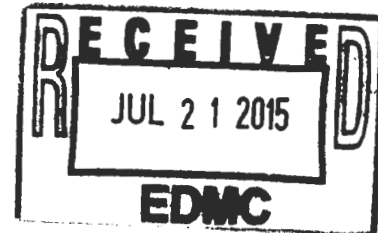
**Department of Energy**  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

15-ESQ-0092

JUL 20 2015

Ms. J. Hedges, Program Manager  
Nuclear Waste Program  
Washington State Department of Ecology  
3100 Port of Benton Boulevard  
Richland, Washington 99354

Ms. W. Wilson, Unit Manager  
Tribal and Air Toxics Unit  
U.S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue, Suite 900, AWT-107  
Seattle, Washington 98101



## Addressees:

NOTIFICATION OF OFF-PERMIT CHANGE, HANFORD SITE AIR OPERATING PERMIT  
(AOP) 00-05-006, RENEWAL 2, FOR ADDITION OF A RECIPROCATING INTERNAL  
COMBUSTION ENGINE AT THE 251W SUBSTATION

This letter transmits the attached "Notification of Off-Permit Change, Permit Number 00-05-006, Renewal 2," to add a propane engine used to provide backup emergency power to the 251W Substation to the Hanford Site AOP. The Off-Permit Change Notification documentation has been prepared in accordance with Washington Administrative Code 173-401-724. If you have any questions, please contact me, or your staff may contact Jeffrey A. Frey, Acting Assistant Manager for Safety and Environment, on (509) 376-7727.

Sincerely,

A handwritten signature in cursive script that reads "Stacy Charboneau".

Stacy Charboneau  
Manager

ESQ:ETF

Attachment

cc w/attach: See page 2

Addressees  
15-ESQ-0092

-2-

JUL 20 2015

cc w/attach:

G. Bohnee, NPT  
R. Buck, Wanapum  
D. Faulk, EPA  
P. Gent, Ecology  
S. Harris, CTUIR  
S. Hudson, HAB  
R. Jim, YN  
R. Kaldor, MSA  
K. Niles, ODOE  
D. Rowland, YN  
D. Zhen, EPA

Administrative Record  
Environmental Portal

ATTACHMENT

**NOTIFICATION OF OFF-PERMIT CHANGE**  
**Permit Number: 00-05-006, Renewal 2**

**Consisting of 3 pages,  
including this cover page**

## NOTIFICATION OF OFF-PERMIT CHANGE

**Permit Number: 00-05-006, Renewal 2**

This notification is provided to the Washington State Department of Ecology, Washington State Department of Health, and the U.S. Environmental Protection Agency as a notice of an off-permit change described as follows.

The following changes are allowed pursuant to WAC 173-401-724(1), WAC 173-401-724(2), and WAC 173-401-724(6):

1. Change is not specifically addressed or prohibited by the AOP terms and conditions;
2. Change does not weaken the enforceability of the existing AOP conditions;
3. Change is not a Title I modification or subject to the acid rain requirements under Title IV of the FCAA;
4. Change meets all applicable requirements and does not violate an existing permit term or condition;
5. Change has complied with applicable preconstruction review requirements established pursuant to RCW 70.94.152.

### **Description of the change:**

This change adds a propane engine used to provide backup emergency power to the 251W substation to Table 1.5 and Table 1.6 of the Hanford Site Air Operating Permit. Engine specifics are provided below.

Engine identifier: 251W Substation Emergency Backup Engine  
 Engine horsepower: 97.7 horsepower  
 Cylinder displacement: 6.8 liters  
 Air to Fuel ratio: 14.5  
 Regulation: 40 CFR 60, Subpart JJJJ

The engine is a Cummins model GGHE-6194537 manufactured in December 2010 and certified to meet the emissions requirements as stated in 40 CFR 60. 4231(c).

### **Date of change: (To be provided in the agency approval order.)**

July 2015

### **Describe the emissions resulting from the change:**

The engine complies with the 40 CFR 60 New Source Performance Standards (NSPS) as it is certified by the manufacturer as meeting the requirements as directed in 40 CFR 60. 4231(c) and provided below/

#### PHASE 1 EXHAUST EMISSION STANDARDS

[Grams per kilowatt-hour]

Engine displacement class	Hydrocarbons+oxides of nitrogen (HC+NOX)	Hydrocarbons	Carbon monoxide	Oxides of nitrogen (NOX)
I	16.1	.....	519	.....
II	13.4	.....	519	.....
III	.....	295	805	5.36
IV	.....	241	805	5.36
V	.....	161	603	5.36

**Describe the new applicable requirements that will apply as a result of the change:**  
(To be provided in the agency approval order.)

**Requirement Citation:** NSPS Subpart JJJJ

**Condition:** (1) Hydrocarbons (HC) and nitrogen oxides (NOX) emission limit of 13.4 g/kW-hr.

(2) Carbon monoxide (CO) emission limit of 519 g/kW-hr.

**Compliance Requirement:** Compliance will be determined by operating and maintaining the engine according to the manufacturer's emission-related written instructions.

**Required Records:** (1) Manufacturer's maintenance or operation manual

(2) Documentation of maintenance performed

**State-Only:** No

**Calculation Model:** Not applicable.