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OFFICE OF RIVER PROTECTION
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

JUL 12 2017

17-ECD-0049

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Ms. Alexandra K. Smith, Program Manager
Nuclear Waste Program
Washington State
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

Ms. Smith:

U.S. DEPARTMENT OF ENERGY, OFFICE OF RIVER PROTECTION SUBMITS NOTIFICATIONS OF OFF-PERMIT CHANGE TO INCLUDE VARIOUS ENGINES AT TANK FARMS IN THE HANFORD SITE AIR OPERATING PERMIT, PERMIT NUMBER 00-05-006

The U.S. Department of Energy, Office of River Protection submits to the Washington State Department of Ecology notifications of off-permit changes for engine discharge points for review and approval (Attachments 1 through 8). These off-permit change notifications are submitted to include various Tank Farms engines in the Hanford Air Operating Permit.

If you have any questions, please contact Dennis W. Bowser, Environmental Compliance Division, (509) 373-2566.

K. W. Smith

Kevin W. Smith
Manager

ECD:DWB

Attachments: (8)

cc w/attachs:
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R.A. Kaldor, MSA
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Attachment 1
17-ECD-0049
(3 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, AX Farm Area

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:

Discharge Point: AX Farm Area
200 East Area, AX Farm Area
Up to 8 diesel engines used to power light plants at the AX Farm Area are allowed.

Diesel engines as described in the following table are used to power light plants at the AX Farm Area. The number of light plant stationary engines will not exceed eight small, or will not exceed four small and one large, or will not exceed two large at the AX Farm Area. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Small Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Large Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition:	Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]
Compliance Requirement:	Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.
Required Records:	Not applicable
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as

	not to alter or affect the installation, configuration, or emission-related settings.
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain light plant stationary engines at the AX Farm Area in one of the following configurations: (1) No more than eight small (≤12.6 kW [16.9 HP]) light plant stationary engines (2) No more than four small and one large (≤53.2 kW [71.3 HP]) light plant stationary engines (3) No more than two large light plant stationary engines.
Periodic Monitoring:	Inventory of stationary engines used to power the light plants. At a minimum, record the current and past stationary engines in the AX Farm Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 2
17-ECD-0049
(4 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, AY-102 Control Trailer Area

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:

Discharge Point: AY-102 Control Trailer Area
200 East Area, AY-102 Control Trailer Area
Up to 8 diesel engines used to power light plants and a generator at the AY-102 Control Trailer Area are allowed.

Diesel engines as described in the following tables are used to power light plants and a generator at the AY-102 Control Trailer Area. The combination of stationary engines at the AY-102 Control Trailer Area will not exceed eight small light plant engines, or will not exceed four small light plant engines and one large light plant engine, or will not exceed two large light plant engines, or will not exceed four small light plant engines and one generator engine, or will not exceed one large light plant engine and one generator engine. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Small Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Large Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Generator Engine	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition: Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]

Compliance Requirement: Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.

Required Records: Not applicable

State-Only: No

Calculation Model: Not applicable

Condition Approval

Condition: (1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with

good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]

Compliance Requirement: (1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR**
(2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions. **AND**
(3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.

Required Records: (1) Manufacturer's maintenance or operation manual
(2) Documentation of maintenance performed
(3) Maintenance plan, as appropriate

State-Only: No

Calculation Model: Not applicable

Condition Approval

Condition: Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]

Periodic Monitoring: Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).

Test Method: Not applicable

Test Frequency: Not applicable

Required Records: Vendor certification for diesel fuel sulfur content for all purchases.

State-Only: No

Calculation Model: Not applicable

Condition Approval

Condition: If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]

Periodic Monitoring: Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.

Test Method: Not applicable

Test Frequency: Not applicable

Required Records: (1) Manufacturer's maintenance or operation manual
(2) Documentation of maintenance performed, if diesel particulate filter present

State-Only: No

Calculation Model: Not applicable

Condition Approval

Condition:	Maintain light plant and generator stationary engines at the AY-102 Control Trailer Area in one of the following configurations: (1) No more than eight small (≤ 12.6 kW [16.9 HP]) light plant stationary engines (2) No more than four small light plant stationary engines and one large (≤ 53.2 kW [71.3 HP]) light plant stationary engine (3) No more than two large light plant stationary engines (4) No more than four small light plant stationary engines and one generator stationary engine (≤ 53.2 kW [71.3 HP]) (5) No more than one large light plant stationary engine and one generator stationary engine.
Periodic Monitoring:	Inventory of stationary engines used to power the light plants and generator. At a minimum, record the current and past stationary engines in the AY-102 Control Trailer Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 3
17-ECD-0049
(4 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, Inter-Farm AX Access Area

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:

Discharge Point: Inter-Farm AX Access Area
200 East Area, Inter-Farm AX Access Area
Up to 8 diesel engines used to power light plants and a generator at the Inter-Farm AX Access Area are allowed.

Diesel engines as described in the following tables are used to power light plants and a generator at the Inter-Farm AX Access Area. The combination of stationary engines at the Inter-Farm AX Access Area will not exceed eight small light plant engines, or will not exceed four small light plant engines and one large light plant engine, or will not exceed two large light plant engines, or will not exceed four small light plant engines and one generator engine, or will not exceed one large light plant engine and one generator engine, or will not exceed two generator engines. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Small Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Large Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Generator Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition: Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]

Compliance Requirement: Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.

Required Records: Not applicable

State-Only: No

Calculation Model: Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions. **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No

Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain light plant and generator stationary engines at the Inter-Farm AX Access Area in one of the following configurations: (1) No more than eight small (≤ 12.6 kW [16.9 HP]) light plant stationary engines (2) No more than four small light plant stationary engines and one large (≤ 53.2 kW [71.3 HP]) light plant stationary engine (3) No more than two large light plant stationary engines (4) No more than four small light plant stationary engines and one generator stationary engine (≤ 53.2 kW [71.3 HP]) (5) No more than one large light plant stationary engine and one generator stationary engine (6) No more than two generator stationary engines.
Periodic Monitoring:	Inventory of stationary engines used to power the light plants and generator. At a minimum, record the current and past stationary engines in the Inter-Farm AX Access Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 4
17-ECD-0049
(4 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, Inter-Farm Construction Area

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 173401-724(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:

Discharge Point: Inter-Farm Construction Area
200 East Area, Inter-Farm Construction Area
Up to 8 diesel engines used to power light plants and a generator at the A Inter-Farm Construction Area are allowed.

Diesel engines as described in the following tables are used to power light plants and a generator at the Inter-Farm Construction Area. The combination of stationary engines at the Inter-Farm Construction Area will not exceed eight small light plant engines, or will not exceed four small light plant engines and one large light plant engine, or will not exceed two large light plant engines, or will not exceed four small light plant engines and one generator engine, or will not exceed one large light plant engine and one generator engine. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Small Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Large Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Generator Engine	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_x + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition: Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]

Compliance Requirement: Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.

Required Records: Not applicable

State-Only: No

Calculation Model: Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No

Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain light plant and generator stationary engines at the Inter-Farm Construction Area in one of the following configurations: (1) No more than eight small (≤ 12.6 kW [16.9 HP]) light plant stationary engines (2) No more than four small light plant stationary engines and one large (≤ 53.2 kW [71.3 HP]) light plant stationary engine (3) No more than two large light plant stationary engines (4) No more than four small light plant stationary engines and one generator stationary engine (≤ 53.2 kW [71.3 HP]) (5) No more than one large light plant stationary engine and one generator stationary engine.
Periodic Monitoring:	Inventory of stationary engines used to power the light plants and generator. At a minimum, record the current and past stationary engines in the Inter-Farm Construction Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 5
17-ECD-0049
(3 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, Inter-Farm Parking Area

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:

Discharge Point: Inter-Farm Parking Area
200 East Area, Inter-Farm Parking Area
Up to 8 diesel engines used to power light plants at the Inter-Farm Parking Area are allowed.

Diesel engines as described in the following table are used to power light plants at the Inter-Farm Parking Area. The number of light plant stationary engines will not exceed eight at the Inter-Farm Parking Area. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition:	Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]
Compliance Requirement:	Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.
Required Records:	Not applicable
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain no more than eight Inter-Farm Parking Area light plant stationary engines each $\leq$ 12.6 kW (16.9 HP).
Periodic Monitoring:	Inventory of stationary engines used to power the light plants. At a minimum, record the current and past stationary engines in the Inter-Farm Parking Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 6
17-ECD-0049
(3 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, Marshalling Yard Area

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:

Discharge Point: Marshalling Yard Area
200 East Area, Marshalling Yard Area
Up to 8 diesel engines used to power light plants at the Marshalling Yard Area are allowed.

Diesel engines as described in the following table are used to power light plants at the Marshalling Yard Area. The number of light plant stationary engines will not exceed eight at the Marshalling Yard Area. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition:	Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]
Compliance Requirement:	Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.
Required Records:	Not applicable
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain no more than eight Marshalling Yard Area light plant stationary engines each $\leq$ 12.6 kW (16.9 HP).
Periodic Monitoring:	Inventory of stationary engines used to power the light plants. At a minimum, record the current and past stationary engines in the Marshalling Yard Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 7
17-ECD-0049
(3 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, MO098, MO164, MO173, and MO174 Trailer Area

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:

Discharge Point: MO098, MO164, MO173, and MO174 Trailer Area
200 East Area, MO098, MO164, MO173, and MO174 Trailer Area
Up to 8 diesel engines used to power light plants at the MO098, MO164, MO173, and MO174 Trailer Area are allowed.

Diesel engines as described in the following table are used to power light plants at the MO098, MO164, MO173, and MO174 Trailer Area. The number of light plant stationary engines will not exceed eight small, or will not exceed four small and one large, or will not exceed two large at the MO098, MO164, MO173, and MO174 Trailer Area. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Small Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Large Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2013 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 53.2 kW (71.3 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104
- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition:	Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]
Compliance Requirement:	Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.
Required Records:	Not applicable
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.

Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain light plant stationary engines at the MO098, MO164, MO173, and MO174 Trailer Area in one of the following configurations: (1) No more than eight small (≤12.6 kW [16.9 HP]) light plant stationary engines (2) No more than four small and one large (≤53.2 kW [71.3 HP]) light plant stationary engines (3) No more than two large light plant stationary engines.
Periodic Monitoring:	Inventory of stationary engines used to power the light plants. At a minimum, record the current and past stationary engines in the MO098, MO164, MO173, and MO174 Trailer Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable

Attachment 8
17-ECD-0049
(3 Pages Excluding Cover Sheet)

Notification of Off-Permit Change
Permit Number: 00-05-006, Renewal 2

200 East Area, MO194 and MO195 Trailer Area

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:

Discharge Point: MO194 and MO195 Trailer Area
200 East Area, MO194 and MO195 Trailer Area
Up to 8 diesel engines used to power light plants at the MO194 and MO195 Trailer Area are allowed.

Diesel engines as described in the following table are used to power light plants at the MO194 and MO195 Trailer Area. The number of light plant stationary engines will not exceed eight at the MO194 and MO195 Trailer Area. The aggregate maximum power output of stationary engines at this area will not exceed 142.7 horsepower, as converted from an aggregate heat input of 1,000,000 Btu/hr. Accordingly, this change is exempt from new source review and notice of construction requirements per WAC 173-400-110(4)(c)(iv).

Light Plant Engines	
Engine Type	4-Stroke, Lean Burn
Regulatory Category	Non-Emergency Stationary
Model Year	2008 or later
Displacement (Per Cylinder)	< 10 L
Maximum Power Output	≤ 12.6 kW (16.9 HP)
Fuel Type	Compression Ignition

Date of the change:

To be provided in the agency approval order. The engines are currently operational.

Description of the emissions resulting from the change:

Each engine was certified by the manufacturer to meet one or more of the EPA emission standards from each of the following three categories, as applicable to its model year and maximum power output.

For particulate matter (PM), carbon monoxide (CO), and oxides of nitrogen and non-methane hydrocarbons (NO_X + NMHC):

- 40 CFR 1039.101
- 40 CFR 1039.102
- 40 CFR 1039.104

- 40 CFR 1039.625

For smoke:

- 40 CFR 89.113
- 40 CFR 1039.105

For crankcase emissions:

- 40 CFR 1039.115

Description of the new requirements that will apply as a result of the change:

40 CFR 63 Subpart ZZZZ applies to the engines detailed in this change. Per 40 CFR 63.6590(c)(7), the applicable requirements of 40 CFR 63 Subpart ZZZZ are met by meeting the applicable requirements of 40 CFR 60 Subpart IIII, which are detailed below.

Requirement Citation: NSPS Subpart IIII

Condition Approval

Condition:	Purchase an engine certified to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. [40 CFR 60.4204(b) and 40 CFR 60.4211(c)]
Compliance Requirement:	Compliance will be determined by the presence of a manufacturer's label on the engine indicating certification to the requisite emission standards.
Required Records:	Not applicable
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	(1) Operate and maintain the engine and control device according to the manufacturer's emission-related written instructions [40 CFR 60.4211(a)(1)] **OR** (2) Keep a maintenance plan and records of conducted maintenance and, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 60.4211(g)(1)]
Compliance Requirement:	(1) Compliance will be determined by operating and maintaining the engine in accordance with the manufacturer's emission-related written instructions **OR** (2) Compliance will be determined by operating and maintaining the engine in accordance with a user-developed maintenance plan that, to the extent practicable, is consistent with good air pollution control practice for minimizing emissions **AND** (3) If a maintenance plan is used, compliance will be determined by retaining the engine in the condition established by the equipment manufacturer so as not to alter or affect the installation, configuration, or emission-related settings.
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed (3) Maintenance plan, as appropriate
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Use of fuel per 40 CFR 80.510(b). [40 CFR 60.4207(b)]
Periodic Monitoring:	Compliance will be demonstrated by use of fuel containing no greater than 0.0015 weight percent sulfur (15 parts per million by weight).
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Vendor certification for diesel fuel sulfur content for all purchases.
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	If the engine is equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached. [40 CFR 60.4209(b) and 40 CFR 60.4214(c)]
Periodic Monitoring:	Compliance will be determined by retaining the manufacturer's maintenance or operational manual to show whether the engine is equipped with a diesel particulate filter and a backpressure monitor, and by retaining maintenance records to document corrective actions taken that pertain to the diesel particulate filter, if present.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	(1) Manufacturer's maintenance or operation manual (2) Documentation of maintenance performed, if diesel particulate filter present
State-Only:	No
Calculation Model:	Not applicable

Condition Approval

Condition:	Maintain no more than eight MO194 and MO195 Trailer Area light plant stationary engines each ≤ 12.6 kW (16.9 HP).
Periodic Monitoring	Inventory of stationary engines used to power the light plants. At a minimum, record the current and past stationary engines in the MO194 and MO195 Trailer Area with the date the engine was located in the area and the date it was removed from the area.
Test Method:	Not applicable
Test Frequency:	Not applicable
Required Records:	Engine inventory
State-Only:	No
Calculation Model:	Not applicable