

**AIR EMISSIONS  
NOTICE OF CONSTRUCTION APPROVAL ORDER  
CONDITIONS AND RESTRICTIONS**

**REGULATORY AUTHORITY:**

Pursuant to the Washington State Department of Ecology *General Regulations for Air Pollution Sources*, Chapter 173-400 Washington Administrative Code (WAC); *Controls for New Sources of Toxic Air Pollutants*, Chapter 173-460 WAC; *Emission Standards and Controls for Sources Emitting Gasoline Vapors*; Chapter 173-491 WAC, *State Environmental Policy Act (SEPA)*, 43.21 C Revised Code of Washington (RCW); SEPA Rules, Chapter 197-11 WAC; and SEPA Procedures, Chapter 173-802 WAC, Ecology finds the following:

**FINDINGS:**

1. The United States Department of Energy proposes to modify their existing facility (Hanford) located in Richland, Washington.
2. A Notice of Construction (NOC) application was submitted on March 8, 2006. The application was found to be complete on March 23, 2006.
3. Hanford is an existing major stationary source that emits more than 250 tons of a regulated pollutant per year.
4. The proposed project consists of installing and operating an above-grade storage vessel and dispensing system for E-85 automotive fuel. Following installation, it will operate 24 hours per day, 365 days per year.
5. The proposed project was previously petitioned on October 7, 2003, and approved in ORDER # DE03NWP-004 on November 24, 2003.
6. The approved project did not begin construction within the eighteen months stipulated in ORDER # DE03NWP-004, Condition 6.1, resulting in that ORDER becoming void.
7. Hanford is located in a Class II Area designated as "attainment" for the purpose of NOC permitting for all pollutants.
8. Emissions of criteria pollutants from the proposed project are below the Prevention of Significant Deterioration Significant Emission Rates.
9. Criteria air pollutant emissions from the proposed project are below the *de minimus* levels in WAC 173-400-110(5)(d).
10. Toxic Air Pollutants (TAPs) from the proposed project are below the Acceptable Source Impact Levels (ASILs) of WAC 173-460-150 and WAC 173-460-160 and below Small Quantity Emission Rates of WAC 173-460-080.

11. Toxics Best Available Control Technology (T-BACT) and Best Available Control Technology (BACT) for this project are the installation and operation of submerged or bottom fill and fittings to vapor balance fuel vapors with the delivery transport tank (Stage I vapor recovery).
12. The proposed project, if constructed and operated as herein required, will provide T-BACT and BACT.
13. The proposed project, if operated as herein required, will be in accordance with applicable rules and regulations, as set forth in Chapter 173-400 WAC, Chapter 173-460 WAC, and Chapter 173-491. The operation will not result in ambient air quality standards being exceeded.
14. The project will have no significant impact on air quality.

**THEREFORE, IT IS ORDERED** that the project, as described in said NOC Application, is approved for construction, installation, and operation, provided compliance with the conditions and restrictions described below. This ORDER shall be identified as NOC ORDER **DE06NWP-001**.

## 1.0 GENERAL APPROVAL CONDITIONS

### 1.1 Effective Date

The effective date of this authorization shall be that as signed in Section 3.0.

### 1.2 Emission Limits

- 1.2.1 Emissions of Volatile Organic Compounds shall not exceed 40 tons per year.
- 1.2.2 All TAPs, as submitted in the Permittee's NOC Application, shall be below their respective ASIL.

### 1.3 Compliance Demonstration

- 1.3.1 Compliance with Approval Condition 1.2.1 shall be demonstrated by:
  - 1.3.1.1 Installation of BACT and T-BACT emissions control including:
    - 1.3.1.1.1 Submerged or bottom fill pipe such that the pipe inlet is fully submerged when the fluid level in the tank is six inches (15.2 cm) or greater.
    - 1.3.1.1.2 Fittings to vapor balance gasoline vapors with the delivery transport tank.
  - 1.3.1.2 Creation and retention of fuel storage tank loading records detailed in Approval Condition 1.6.
  - 1.3.1.3 Application of appropriate air pollution emission factors  
*(Compilation of Air Pollutant Emission Factors, Volume 1:*

*Stationary Point and Area Sources*, AP-42, U.S. EPA, Section 7.1) to normalized, annual fuel throughput.

1.3.1.4 Maintenance of the system to be leak free and vapor tight or within good practice leakage rate, and in good working condition.

1.3.1.5 Creation and retention of maintenance records detailed in Approval Condition 1.6.

1.3.2 Compliance with Approval Condition 1.2.2 shall be demonstrated by compliance with Approval Conditions 1.3.1.2 and 1.3.1.3

#### 1.4 Operations

Operation of the proposed project requires that:

1.4.1 Tank caps be secured tightly and locked down between tank loading events.

1.4.2 The tank vapor balance system be attached to the transport tank and operated satisfactorily if the transport tank is required to be fitted for vapor balance under WAC 173-491-040.

1.4.3 Adapters, fill tube gaskets, and poppet valves be maintained in good working condition.

1.4.4 The automatic cut-off valve and lever of the dispensing pump be maintained in good working order.

1.4.5 The hose swivel be maintained leak-free and without excessive stiffness.

#### 1.5 Manuals

Operations and Maintenance (O&M) manuals for all equipment, procedures, and controls associated with the proposed activities that have the potential to affect emissions to the atmosphere shall be followed. Manufacturer's instructions may be referenced. The O&M manuals shall be updated to reflect any modifications of the process or operating procedures. Copies of the O&M manuals shall be available to Ecology upon request.

#### 1.6 Recordkeeping

Specific records shall be kept on the Hanford Site by the Permittee and made available for inspection by Ecology upon request. The records shall be organized in a readily accessible manner and cover a minimum of the most recent thirty-six (36) month period. The records to be kept shall include the following:

1. Records of fuel storage tank loading of the E-85 fuel detailing for each load received: the date of receipt, volume received, delivery transport tank identifying information, vapor balance fitted to transport tank (Yes/No), and leak/spill assessment (e.g., "None").
2. Maintenance records including dates, nature of maintenance, and any leakage tests performed.

## 2.0 NOTIFICATIONS AND SUBMITTALS

### 2.1 Addressing

Any required notifications and submittals required under these Approval Conditions shall be sent to:

Washington State Department of Ecology  
Nuclear Waste Program  
3100 Port of Benton Boulevard  
Richland, Washington 99354

### 2.2 Operational Notice

Notification shall be made at least five (5) days prior to initial operation of the project covered by this ORDER.

## 3.0 APPROVAL ORDER AND RESTRICTIONS

Operation of the subject tank and dispensing system is intended for the storage and dispensing of automotive fuel as described in the NOC application.

This ORDER shall become void if construction is not commenced within eighteen (18) months of the effective date of this ORDER.

This Authorization may be modified, suspended, or revoked in whole, or in part, for cause including, but not limited to, the following:

1. Violation of any terms or conditions of this authorization.
2. Obtaining this authorization by misrepresentation, or failure to fully disclose all relevant facts.

The provisions of this authorization are severable and, if any provision of this authorization, or application of any provisions of this authorization to any circumstance, is held invalid, the application of such provision to their circumstances, and the remainder of this authorization, shall not be affected thereby.

Any person aggrieved by this ORDER may obtain review thereof by application, within thirty (30) days of receipt of this ORDER, to:

Pollution Control Hearings Board  
P.O. Box 40903  
Olympia, Washington 98504-0903

Concurrently, copies of the application must also be sent to:

Washington State Department of Ecology  
P. O. Box 47600  
Olympia, Washington 98504-7600

Washington State Department of Ecology  
3100 Port of Benton Boulevard  
Richland, Washington 99354

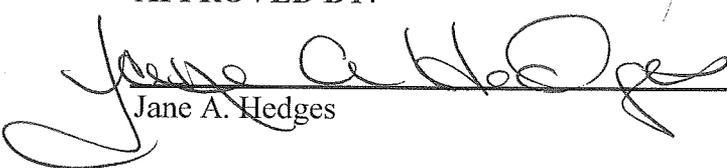
These procedures are consistent with the provisions of Chapter 43.21B RCW, and the rules and regulations adopted thereunder.

**DATED** at Richland, Washington, this 17<sup>th</sup> day of April 2006.

**REVIEWED AND PREPARED BY:**

  
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Doug Hendrickson, P.E.

**APPROVED BY:**

  
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Jane A. Hedges