



March 23, 2016

NW-2016-044

Mr. John Jones  
Federal Project Director  
U.S. Department of Energy  
4100 Guardian Street, Suite 160  
Simi Valley, CA 93063

Subject: NESHAPS Report for 2015

Dear Mr. Jones;

The U.S. Environmental Protection Agency (EPA) regulates airborne releases of radioactivity from Department of Energy (DOE) facilities under 40 CFR 61, Subpart H. This regulation requires a National Emission Standards for Hazardous Air Pollutants (NESHAPs) Report for the DOE operations at the Energy Technology Engineering Center (ETEC) in Area IV of the Santa Susana Field Laboratory (SSFL) be submitted to EPA on an annual basis.

The only potential emission source at ETEC is the exhaust stack at the Radioactive Materials Handling Facility (RMHF). In May 2007, DOE suspended all decontamination and decommissioning (D&D) operations at SSFL pending completion of the Area IV Environmental Impact Statement (EIS). As a result the entire facility was placed into a safe shutdown mode. Other than basic facility monitoring and upkeep, no D&D operations were conducted in the RMHF. As such, no effluents were discharged to the atmosphere through the stack in 2015.

The EPA limit for a DOE site is 10 millirem per year as specified in 40 CFR 61, Subpart H. This regulation also specifies that radiological exposure dose to the Maximally Exposed Individual (MEI) be calculated using EPA's CAP88PC computer model. Due to the fact that no radioactive effluents were discharged to the atmosphere from ETEC in 2015; no modeling was required and the corresponding radiation dose equivalent to the MEI was assumed to be zero (0) millirem.

This report includes the Certification Statement signed by myself for North Wind and by you for the DOE Project Office. The Certification Statements are required for the final report.

If you have any questions or comments on this report, please contact me at (208) 557-7891.

Sincerely;

A handwritten signature in blue ink, appearing to read "Bradley Frazee", with a stylized flourish at the end.

Brad Frazee  
Chief Operating Officer  
North Wind Group

Enclosure: Radionuclide Air Emissions Annual Report

**U.S. Department of Energy**  
**Radionuclide Air Emissions Annual Report**  
**(Subpart H of 40 CFR Part 61)**  
**Calendar Year 2015**

Site Name: Santa Susana Field Laboratory  
(Prepared on March 14, 2016)

Operations Office Information

Office: Department of Energy  
Address Energy Technology Engineering Center  
4100 Guardian Street, Suite 160  
Simi Valley, CA 93063

Contact: John Jones  
Phone: (805) 416-0992

Site Information

Operator: North Wind, Inc.  
Energy Technology Engineering Center  
Address: 5800 Woolsey Canyon Road  
Canoga Park, CA 91304

Contact: Brad Frazee  
Phone: (208) 557-7891

## **Section I. Facility Information**

### **Site Description**

The Santa Susana Field Laboratory (SSFL) is located on the boundary of Ventura and Los Angeles Counties in southern California, as shown in Figure 1. The site consists of four administrative areas and undeveloped land, with a total area of approximately 2,850 acres. A broad range of energy related research and development (R&D) projects, including nuclear technologies, were conducted in Area IV of the SSFL. The Energy Technology Engineering Center (ETEC) is located on 90 acres within Area IV leased by the DOE for government sponsored activities. All the nuclear R&D operations in Area IV ceased in 1988, and subsequent efforts have been directed toward decontamination and decommissioning (D&D) of the former nuclear facilities. In May 2007 DOE suspended all D&D operations at SSFL pending completion of the Area IV Environmental Impact Statement (EIS). Figure 2 shows the arrangement of "Areas" within the SSFL.

The climate at SSFL is generally dry, with variable winds. The site is situated between Simi Valley and the San Fernando Valley. While the land immediately surrounding Area IV is undeveloped, suburban residential areas surround these undeveloped areas at greater distances from the site.

### **Source Description**

There are two radiological facilities or buildings remaining in ETEC at the SSFL, as shown in Figure 3.

The Radioactive Materials Handling Facility (RMHF) was used for processing, packaging, and temporary storage of radioactive waste, which was eventually shipped off-site to DOE approved disposal facilities. The potential emission source at this facility is the exhaust stack through which radioactive effluents can be filtered and monitored before being released into the atmosphere. No radioactive liquid effluents are released from the facility. Since DOE suspended D&D operations at SSFL in May 2007, the RMHF has been placed in a safe shutdown mode. Current operations at the RMHF are restricted to basic facility monitoring and upkeep. No effluents were discharged to the atmosphere through the RMHF exhaust stack during 2015.

Building 4024 housed experimental reactor Systems for Nuclear Auxiliary Power (SNAP) during the 1960s. After the project was terminated, all equipment and fuel was removed from the facility. In 2005, portions of the building were demolished following approval of release for unrestricted use by the State of California Department of Public Health (CDPH). This building is currently in an inactive, safe shutdown status, and is not considered a potential emission source for NESHAPS reporting.



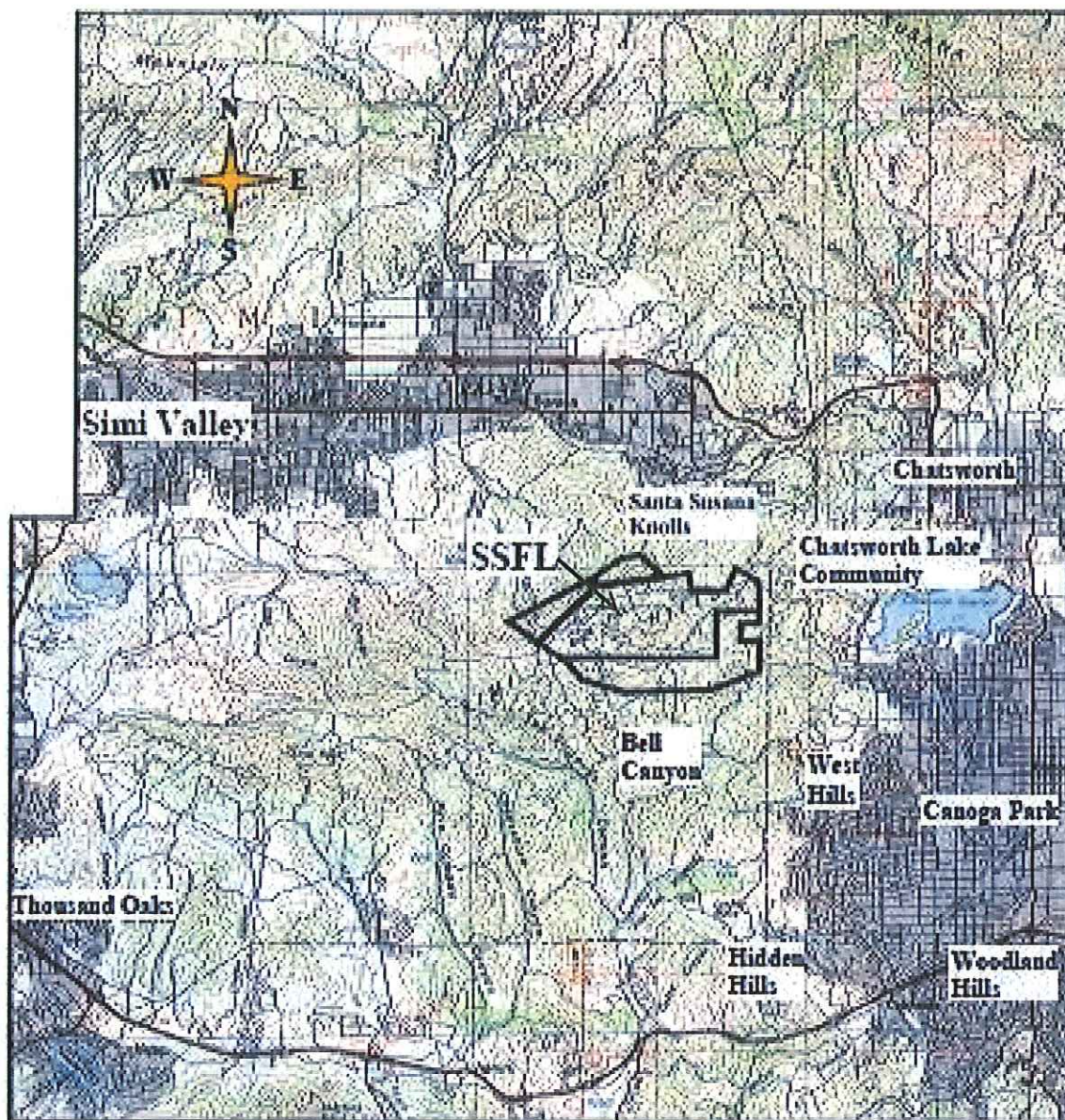
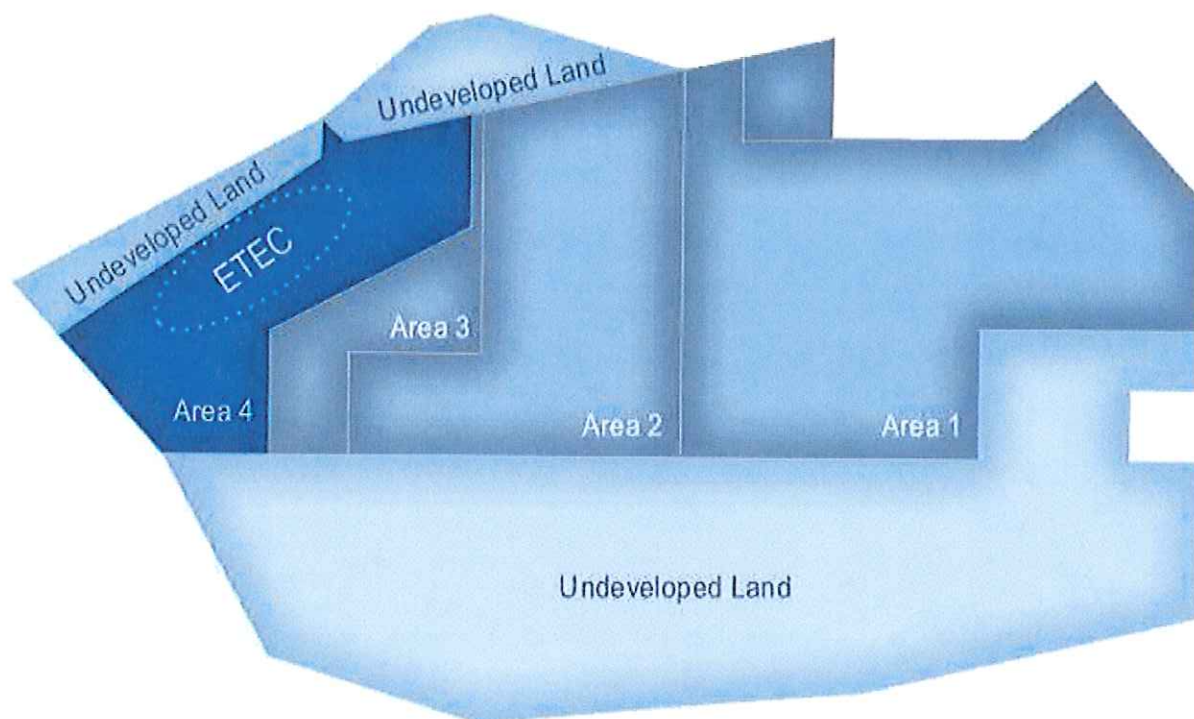


Figure 1. Location of Santa Susana Field Laboratory



**Figure 2. Santa Susana Field Laboratory Site Arrangement**



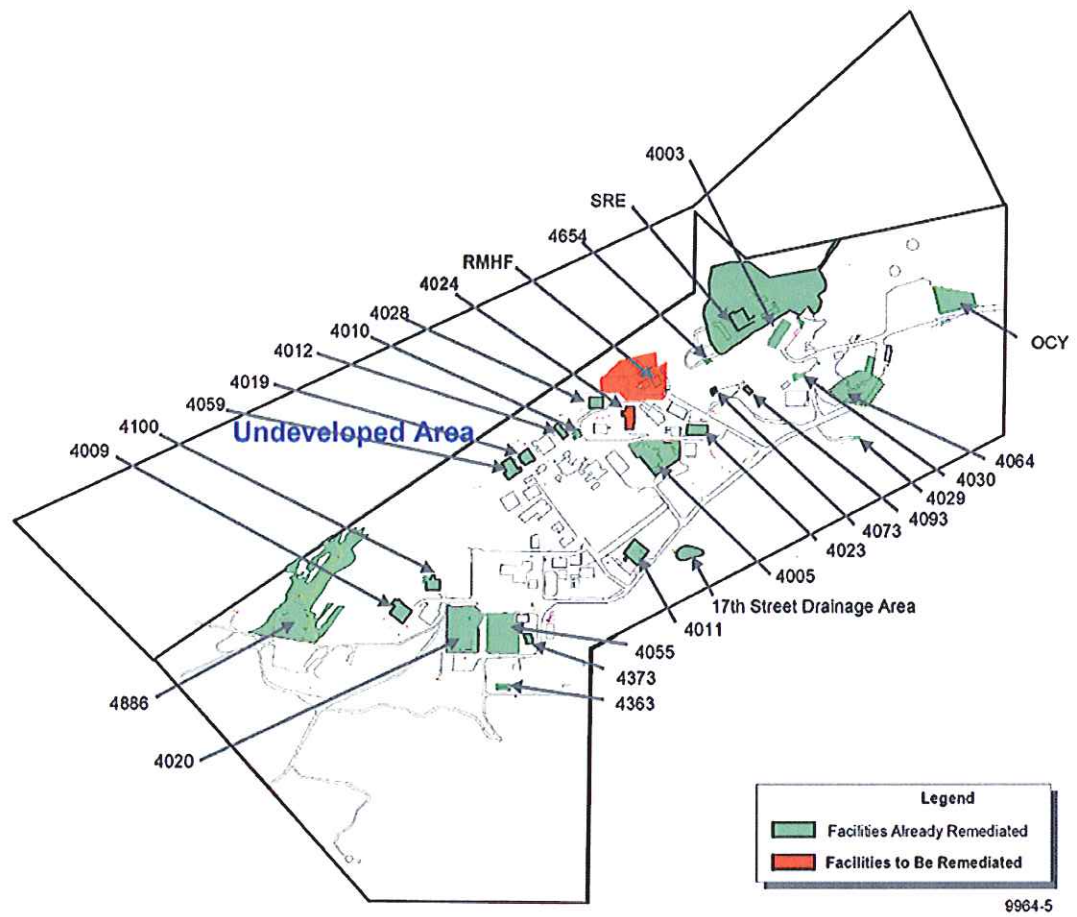


Figure 3. Potential Source Locations In Area IV at the Santa Susanna Field Laboratory

## Section II. Air Emission Data – 2015

### Point Source

<u>Point Source</u>	<u>Type Control</u>	<u>Efficiency</u>	<u>Location of MEI</u>
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N/A

<u>Point Source</u> <u>Radionuclides</u>
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<u>Annual Release Quantity</u>	
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(Ci)	(Bq)
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N/A

0

0

### Area (Non-Point) Source

N/A

## Section III. Dose Assessments – 2015


Considering that no radioactive effluents were discharged to the atmosphere from DOE's operations at ETEC in 2015, appropriate receptors (resident & worker) were not identified and; the dose equivalent to the Maximally Exposed Individual (MEI) is assumed to be zero (0) millirem for the year.

### Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. (See 18 U.S.C. 1001).

 Date: 03/23/2016

Brad Frazee  
Chief Operating Officer  
Energy Technology Engineering Center  
North Wind Group

 Date: 9/21/2016

John Jones  
Federal Project Director  
Energy Technology Engineering Center  
U.S. Department of Energy