The Boeing Company
Santa Susana Field Laboratory
5800 Woolsey Canyon Road
Canoga Park, CA 91304-1148

May 20, 2010
In reply refer to SHEA-109991

Mr. William Backous
Federal Project Director
Department of Energy
Energy Technology Engineering Center
P. O. Box 10300
Canoga Park, CA 91309

BOEING

Subject: NESHAPs Report for 2009

Dear Mr. Backous:

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

The only potential emission source at the DOE facility at SSFL 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 SSFL Area IV Environmental Impact Statement (EIS). As a result, the entire facility was placed into a safe shutdown mode, and no effluents were released to the atmosphere through the stack in 2009.

The EPA limit for a DOE site is 10 mrem/yr, as specified in 40 CFR 61, Subpart H. The regulation also specifies that radiation exposure dose to the Maximally Exposed Individual (MEI) be calculated using the EPA's CAP88PC computer model. Due to the fact that no effluents were released to the atmosphere from the DOE facility at SSFL in 2009, the potential radiation exposure dose to the MEI was zero.

This report includes the Certification Statement to be signed by P. Rutherford for The Boeing Company, Santa Susana Field Laboratory and by you for the DOE Oakland Projects Office. The Certification Statements are required for the final report.

W. Backous
May 20, 2010
In reply refer to SHEA-109991

If you have any questions or comments on this report, please contact Ning Liu at (818) 466-8762.

Sincerely,

BOEING

Phil Rutherford
Manager, Health, Safety & Radiation Services

PR:NL:mc

Enclosure: Radionuclide Air Emissions Annual Report

c.c. P. Berry, DOE-OAK

W. Backous
May 20, 2010
In reply refer to SHEA-109991
DOEAIR09

U. S. Department of Energy
Radionuclide Air Emissions Annual Report
(under Subpart H of 40 CFR Part 61)
Calendar Year 2009

Site Name: Santa Susana Field Laboratory
(Prepared on May 4, 2010)

Operations Office Information

Office: Department of Energy
Address: Energy Technology Engineering Center
P. O. Box 10300
Canoga Park, CA 91309

Contact: William Backous
Phone: (818) 466-8959

Site Information

Operator: The Boeing Company
Santa Susana Field Laboratory
Address: 5800 Woolsey Canyon Road
Canoga Park, CA 91304-1148

Contact: Ning Liu
Phone: (818) 466-8762

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Section I. Facility Information

Site Description

The Santa Susana Field Laboratory (SSFL) is located at 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 site. All the nuclear R&D operations in Area IV ceased in 1988, and the 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 SSFL Area IV Environmental Impact Statement (EIS). Area IV has an area of about 290 acres, and Figure 2 shows the arrangement of the site.

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

Source Description

There are two radiological facilities or buildings remaining in Area IV of the SSFL, as shown in Figure 3. The Radioactive Materials Handling Facility (RMHF) is used for processing, packaging, and temporary storage of radioactive waste, which are eventually shipped off-site to DOE approved disposal facilities. The potential emission source at this facility is the exhaust stack through which radioactive effluents are filtered and monitored before 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 into a safe shutdown mode. No effluents were released to the atmosphere through the RMHF exhaust stack during 2009.

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

W. Backous
May 20, 2010
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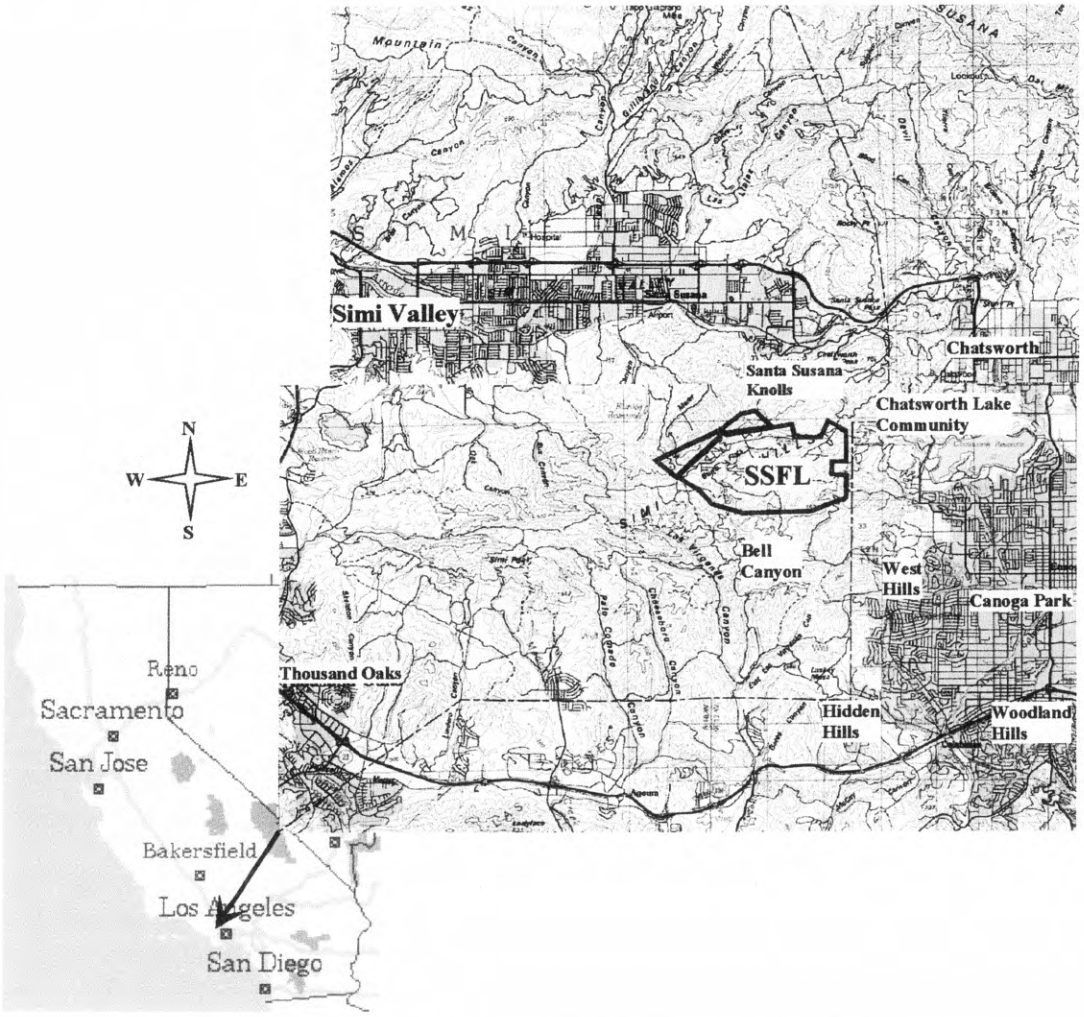

Figure 1. Location of Santa Susana Field Laboratory

Subdivisions			
Owner	**Jurisdiction**	**Acres**	**Subtotals**
The Boeing Co.	Area IV	289.9	
	Area I and III	784.8	
	Undeveloped land	1,324.6	2,399.3
Government	NASA (former AFP 57)	409.5	
	NASA (former AFP 64)	41.7	451.2
Total Acres			2,850.5

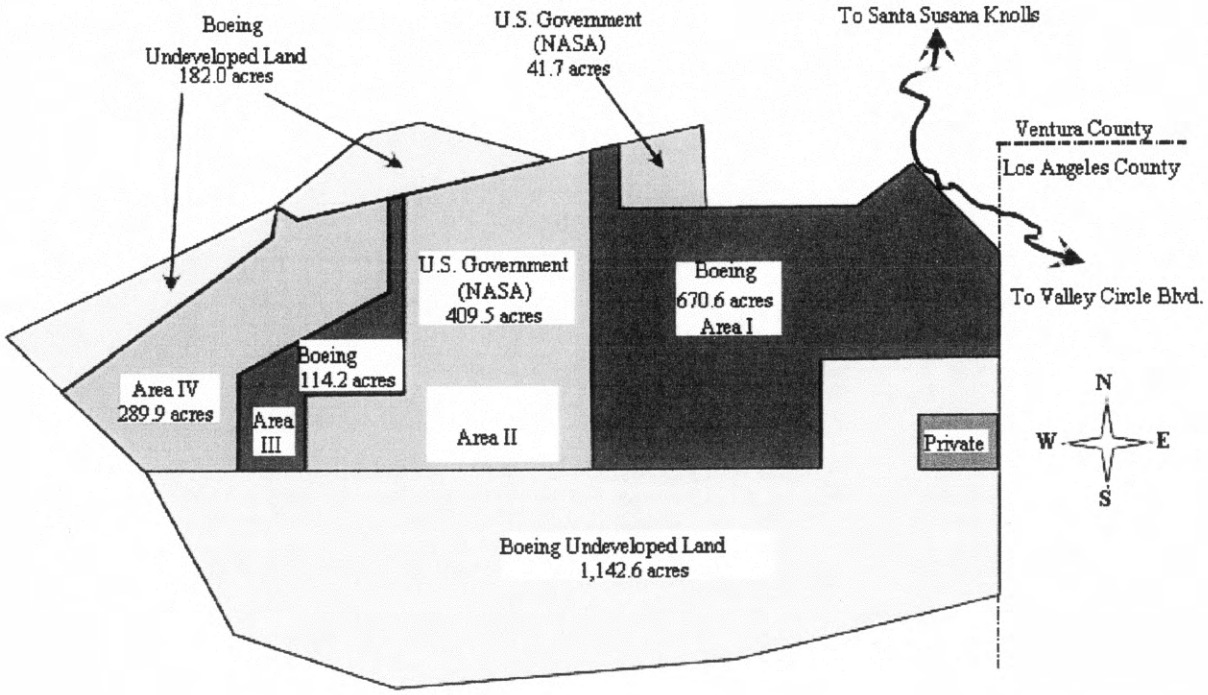

Figure 2. Santa Susana Field Laboratory Site Arrangement

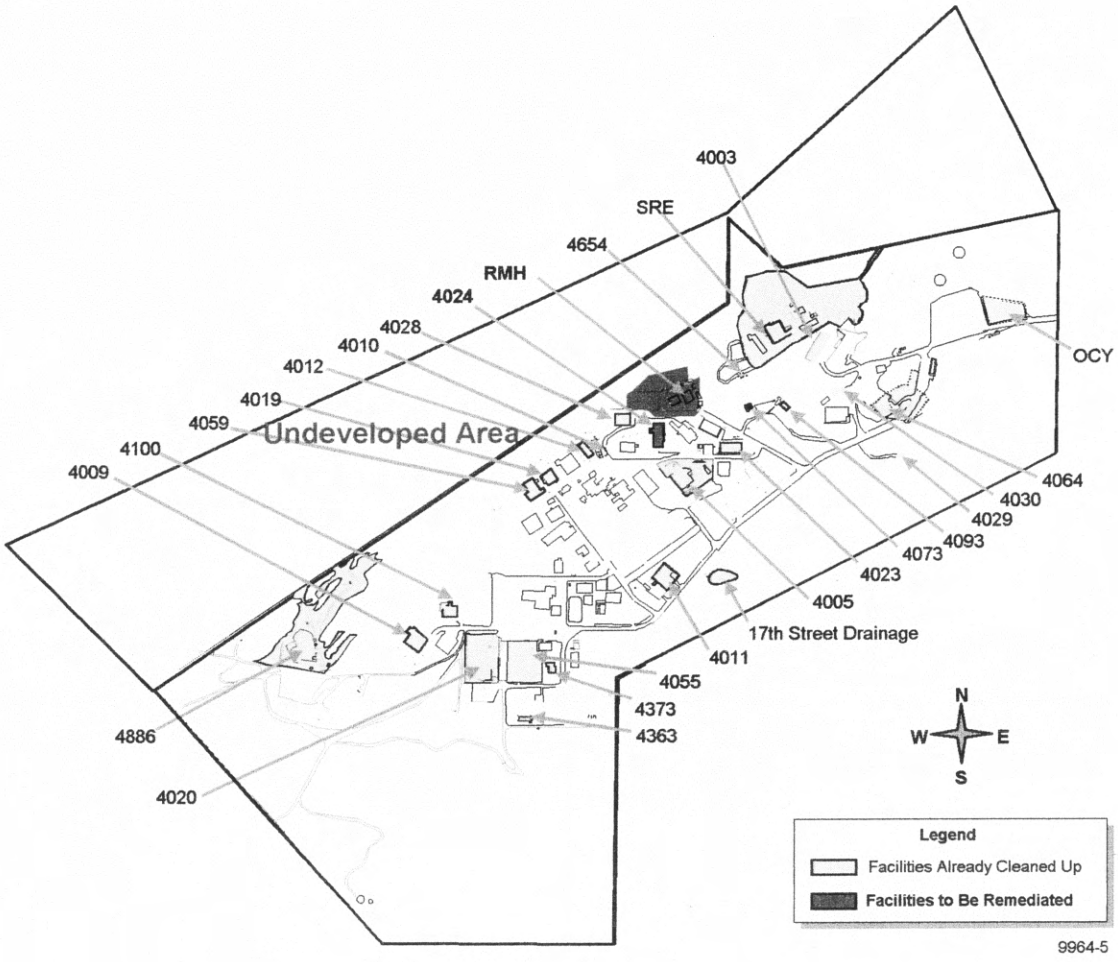

Figure 3. Potential Source Locations in Area IV at Santa Susana Field Laboratory

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Section II. Air Emission Data

Point Source

Point Source	Type Control	Efficiency MEI	Location of
N/A			

Point Source Radionuclides	Annual Release Quantity (Ci)	(Bq)
N/A	0	0

Area (Non-Point) Source

N/A

Section III. Dose Assessments

Due to the fact that no effluents were released to the atmosphere from DOE's operations at SSFL in 2009, the potential radiation exposure doses to the Maximally Exposed Individual (MEI) as well as the population in the surrounding area were zero.

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).

Phil Rutherford Date: 5/20/10
Phil Rutherford
Manager
Health, Safety & Radiation Services
Santa Susana Field Laboratory
The Boeing Company

W Backous Date: 6/7/10
William Backous
Federal Project Director
Energy Technology Engineering Center
U. S. Department of Energy