

## Group C

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Group C Map

Site 4583, Old ESG Storage Yard

Building 4320


Building 4731

Building 4732

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
## Legend

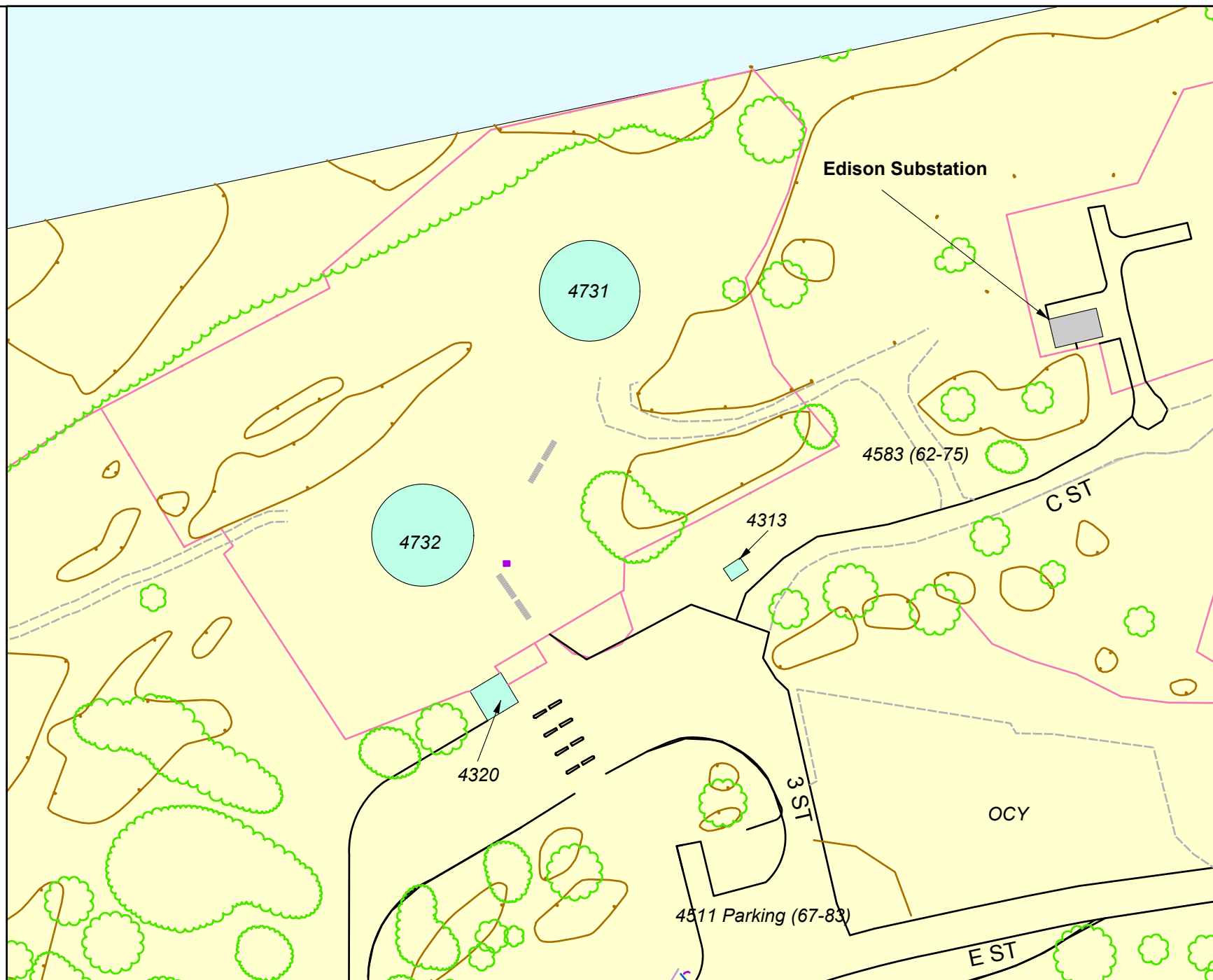
**Labeled Features:**  
(Based on SSFL Documents  
as of October 2004)

 Buildings/Sites:  
"Current"

 Buildings/Sites:  
"Demolished"

### Unlabeled Features:

-  Leachfield  
(Removed)
-  Tree
-  Rock
-  Concrete Curb
-  Gutter
-  Asphalt/Concrete  
Berm & Paving
-  Sidewalk
-  Dirt Road
-  Fence
-  Stream/Pond
-  Drain
-  Area IV Boundary



DRAWN BY:

**Sapere**  
CONSULTING INC



1 inch equals 100 feet

0 25 50 100 150 200 Feet

DATE:

May 2005

Site Summary Group C  
AREA IV  
Santa Susana Field Laboratory, CA

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## Site Summary – Site 4583, Old ESG Storage Yard

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### Site Identification:

Site 4583  
Conservation Yard  
Old ESG Storage Yard

### Operational Use/History:

- This area has been used to support research and development work at Santa Susana Field Laboratory (SSFL) since the 1950s.<sup>1</sup>
- The Old ESG Storage Yard was used extensively during the 1960s to late 1970s predominately in support of nuclear-related work.<sup>1</sup>
- When the Old ESG Storage Yard ceased to be used to support nuclear-related projects in approximately 1977, it was cleaned and all salvageable non-radioactive materials were moved to the New Salvage Yard.<sup>1</sup>
- In the early 1980s, the Old ESG Storage Yard, which was no longer in use, became the Fuel Oil Tank Farm. The area was fenced in 1982.

### Site Description:

- The Old ESG Storage Yard was a three-acre area of mostly natural terrain in the northeastern corner of Area IV, north of C Street.<sup>1,2</sup>

### Relevant Site Information:

- During various construction, dismantling and refurbishing phases of facilities that supported nuclear-related programs at SSFL, excess salvageable materials were kept primarily in the Old ESG Storage Yard.<sup>1</sup>
- Excess materials spread to the surrounding areas, including the Old Conservation Yard, which was located south of the Old ESG Storage Yard.<sup>1</sup>
- Since the Old ESG Storage Yard was used to support nuclear-related work, the area was surveyed for radiological contamination on a regular basis.<sup>1</sup>
- Deliberate dumping or placing of materials did not occur, but contaminated items (uranium and mixed fission products) were occasionally found during routine radiation surveys.<sup>1</sup>

### Radiological Surveys:

- In 1988, Rocketdyne conducted a radiological Survey of the ESG Salvage Yard (Old), the Rocketdyne Barrel Storage Yard, and the New Salvage Yard (4583).<sup>1</sup>
  - The Old ESG Storage Yard, OCY, and New Salvage Yard were surveyed to determine if any residual radioactive contamination remained as a result of storage operations to confirm that further surveying or decontamination was

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necessary.<sup>1</sup> The area was surveyed for fixed and removable alpha/beta contamination.

- Ambient gamma exposure rate measurements were collected for the New Salvage Yard and the drainage gully to the west.
  - Average ambient surface gamma: 14.7  $\mu$ R/hr.
  - Background: 15  $\mu$ R/hr.
  - Acceptable Limit: Less than 5  $\mu$ R/hr above background.
  - The survey found the area to be below acceptable limits.

### Status:

- The Old ESG Storage Yard became the Fuel Oil Tank Farm in the early 1980s. The Fuel Tank Farm and associated piping were demolished in 1999.

### References:

- 1- ETEC Document, GEN-ZR-008, "Radiological Survey of the ESG Salvage Yard (Old), Rocketdyne Barrel Storage Yard, and New Salvage Yard (T583)," August 22, 1988.
- 2- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.
- 3- Historical Site Photographs from Boeing Database.

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## Site Summary – Building 4320

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**Site Identification:**

Building 4320  
Fuel Oil Control/Pump Building

**Operational Use/History:**

- Constructed in 1977.<sup>1</sup>
- Building 4320 sat on a concrete pad and housed four pumps used to pump fuel oil from two tanks (referred to as Buildings 4731 and 4732) to Building 4735, an 86,000-gallon day tank located near Building 4008.<sup>1</sup>
- Demolished in 1999.<sup>2</sup>

**Site Description:**

- Building 4320 was a 500-square-foot structure constructed of prefabricated steel. It sat on a concrete pad and was connected to the tanks by carbon steel pipes ranging from three to six inches in diameter. The entire area was fenced and paved.

**Relevant Site Information:**

- There are no Use Authorizations and no Incident Reports associated with Building 4320.<sup>3</sup>

**Radiological Surveys:**

- Radiological surveys specific to Building 4320 have not been conducted, though information about this site was included in the radiological survey of the ESG Salvage Yard (Old).<sup>1</sup>
- This site was included in the Area IV Radiological Characterization Survey, conducted in 1994 through 1995.<sup>4</sup>
  - Scope/Purpose: Designed to locate and characterize any previously unknown areas of elevated radioactivity in Area IV.
  - Background: 15.6  $\mu\text{R/hr}$ .
  - Acceptable Limit: Less than 5  $\mu\text{R/hr}$  above background.
  - The survey found the area to be below acceptable limits.

**Status:**

- The Tank Farm and associated piping were demolished in 1999.

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### References:

- 1- ETEC Document, GEN-ZR-008, “Radiological Survey of the ESG Salvage Yard (Old), Rocketdyne Barrel Storage Yard, and New Salvage Yard (T583),” August 22, 1988.
- 2- ETEC Document, GEN-SP-00051, “Removal of Fuel Oil Storage and Distribution System,” November 2, 1998.
- 3- Review of Radiation Safety Records Management System, 2003.
- 4- Rocketdyne Document, A4CM-ZR-0011, Rev. A, “Area IV Radiological Characterization Survey,” August 15, 1996.
- 5- Historical Site Photographs from Boeing Database.
- 6- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.



Photograph – Building 4320

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## Site Summary – Building 4731

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### Site Identification:

Building 4731  
1.5 Million Gallon Fuel Oil Storage Tank

### Operational Use/History:

- Constructed in 1977.
- Building 4731 was located in the Fuel Tank Farm area of the Old ESG Storage Yard (Site 4583).<sup>1</sup>
- A second tank, called Building 4732, was constructed in 1982. The areas surrounding both tanks were fenced.<sup>1</sup>
- The tank, referred to as Building 4731, stored fuel that was pumped by the pump station to Building 4735, an 86,000-gallon day tank, located near Building 4008. A control building (Building 4320) was also located at the Fuel Tank Farm.<sup>1</sup>
- Demolished in 1999.<sup>2</sup>

### Site Description:

- Building 4731 had a capacity of 1.5 million gallons, and measured 74 feet in diameter and 48 feet high. It was above ground, vented and constructed of carbon steel. The Fuel Tank Farm also contained a pump station and interconnecting piping systems, a control building, concrete supports and foundations, asphalt paving and chain link fencing.<sup>2</sup>

### Relevant Site Information:

- There are no Use Authorizations and no Incident Reports associated with Building 4731.<sup>3</sup>

### Radiological Surveys:

- Prior to construction of the Fuel Tank Farm, the area of the Old ESG Storage Yard was surveyed to confirm that the area was free of radiological contamination.<sup>1</sup>
- This site was included in the Area IV Radiological Characterization Survey, conducted in 1994 through 1995.<sup>4</sup>
  - Scope/Purpose: Designed to locate and characterize any previously unknown areas of elevated radioactivity in Area IV.
  - Background: 15.6  $\mu$ R/hr.
  - Acceptable Limit: Less than 5  $\mu$ R/hr above background.
  - The survey found the area to be below acceptable limits.

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### Status:

- The Fuel Tank Farm and associated piping were demolished in 1999.<sup>2</sup>

### References:

- 1- ETEC Document, GEN-ZR-008, "Radiological Survey of the ESG Salvage Yard (Old), Rocketdyne Barrel Storage Yard, and New Salvage Yard (T583)," August 22, 1988.
- 2- ETEC Document, GEN-SP-00051, "Removal of Fuel Oil Storage and Distribution System," November 2, 1998.
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- 5- Historical Site Photographs from Boeing Database.
- 6- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.

Photograph – Building 4731

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## Site Summary – Building 4732

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**Site Identification:**

Building 4732  
1.5 Million Gallon Fuel Oil Storage Tank

**Operational Use/History:**

- Constructed in 1982.
- Building 4732 was located adjacent to Building 4731 in the area of the Old ESG Storage Yard.<sup>1</sup>
- The tank, referred to as Building 4732, stored fuel that was pumped by the pump station to Building 4735, an 86,000-gallon day tank, located near Building 4008. A control building (Building 4320) was also located at the Fuel Tank Farm.<sup>1</sup>
- Demolished in 1999.<sup>2</sup>

**Site Description:**

- Building 4732 had a capacity of 1.5 million gallons, and measured 74 feet in diameter and 48 feet high. It was above ground, vented and constructed of carbon steel. The Fuel Tank Farm also contained a pump station and interconnecting piping systems, a control building, concrete supports and foundations, asphalt paving and chain link fencing.<sup>2</sup>

**Relevant Site Information:**

- There are no Use Authorizations and no Incident Reports associated with Building 4732.<sup>3</sup>

**Radiological Surveys:**

- Prior to construction of the Fuel Tank Farm, the area of the Old ESG Storage Yard was surveyed to confirm that the area was free of radiological contamination.<sup>1</sup>
- This site was included in the Area IV Radiological Characterization Survey, conducted in 1994 through 1995.<sup>4</sup>
  - Scope/Purpose: Designed to locate and characterize any previously unknown areas of elevated radioactivity in Area IV.
  - Background: 15.6 µR/hr.
  - Acceptable Limit: Less than 5 µR/hr above background.
  - The survey found the area to be below acceptable limits.

**Status:**

- The Fuel Tank Farm and associated piping were demolished in 1999.<sup>2</sup>

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### References:

- 1- ETEC Document, GEN-ZR-008, "Radiological Survey of the ESG Salvage Yard (Old), Rocketdyne Barrel Storage Yard, and New Salvage Yard (T583)," August 22, 1988.
- 2- ETEC Document, GEN-SP-00051, "Removal of Fuel Oil Storage and Distribution System," November 2, 1998.
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Photograph – Building 4732

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