Group DD

Group DD Map

Building 4317

Building 4318

Building 4425

Building 4730

Building 4814

Includes Building 4314, LLID Test Control Building
Includes Building 4514, Sodium-Water Reaction Test Center

Building 4820

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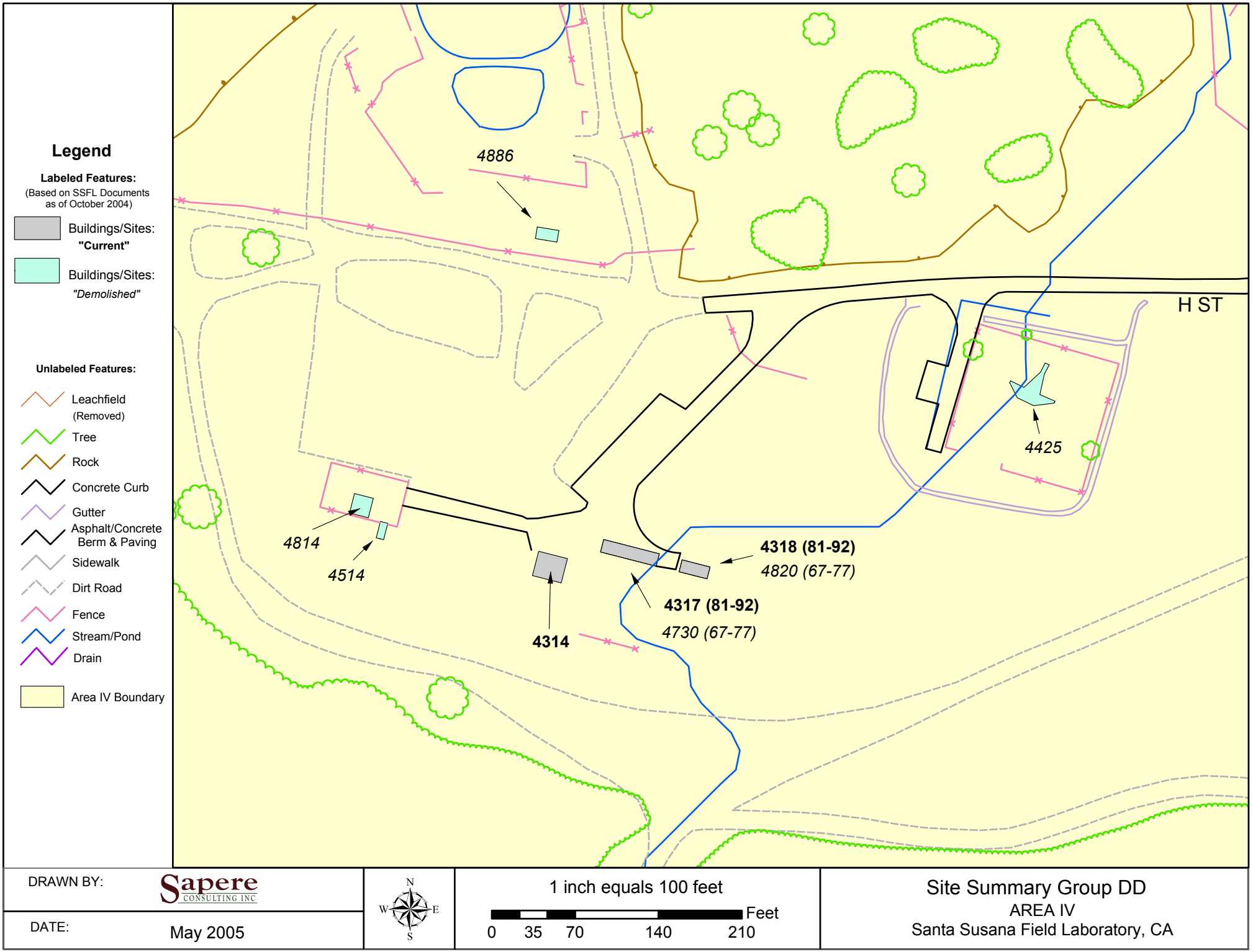
Legend
Labeled Features:
(Based on SSFL Documents as of October 2004)
Buildings/Sites: "Current"
Buildings/Sites: "Demolished"
Unlabeled Features:
Leachfield (Removed)
Tree
Rock
Concrete Curb
Gutter
Asphalt/Concrete Berm & Paving
Sidewalk
Dirt Road
Fence
Stream/Pond
Drain
Area IV Boundary
4886
H ST
4425
4814
4514
4314
4318 (81-92)
4820 (67-77)
4317 (81-92)
4730 (67-77)
DRAWN BY:
Sapere CONSULTING INC
DATE:
May 2005
N
W
E
S
1 inch equals 100 feet
Feet
0 35 70 140 210
Site Summary Group DD
AREA IV
Santa Susana Field Laboratory, CA

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Site Summary – Building 4317

Site Identification:

Building 4317
Pistol Range

Operational Use/History:

- Building 4317 was used for shelter while firing a sidearm.[1]
- Building 4317 has been demolished.

Site Description:

- Building 4317 was a roofed area with open sides that was used to stand under while shooting firearms. There was an earthen berm down range to capture discharged bullets.[1]

Relevant Site Information:

- There are no Use Authorizations and no Incident Reports associated with Building 4317.[2]

Radiological Surveys:

- Radiological surveys specific to Building 4317 have not been conducted.
- This area was covered as part of the 1994-1995 Area IV Radiological Characterization Survey.[3]
  - Background: 15.6 µ/hr.
  - Acceptable Limit: Less than 5 µ/hr above background.
  - Survey results were below the acceptable limits.

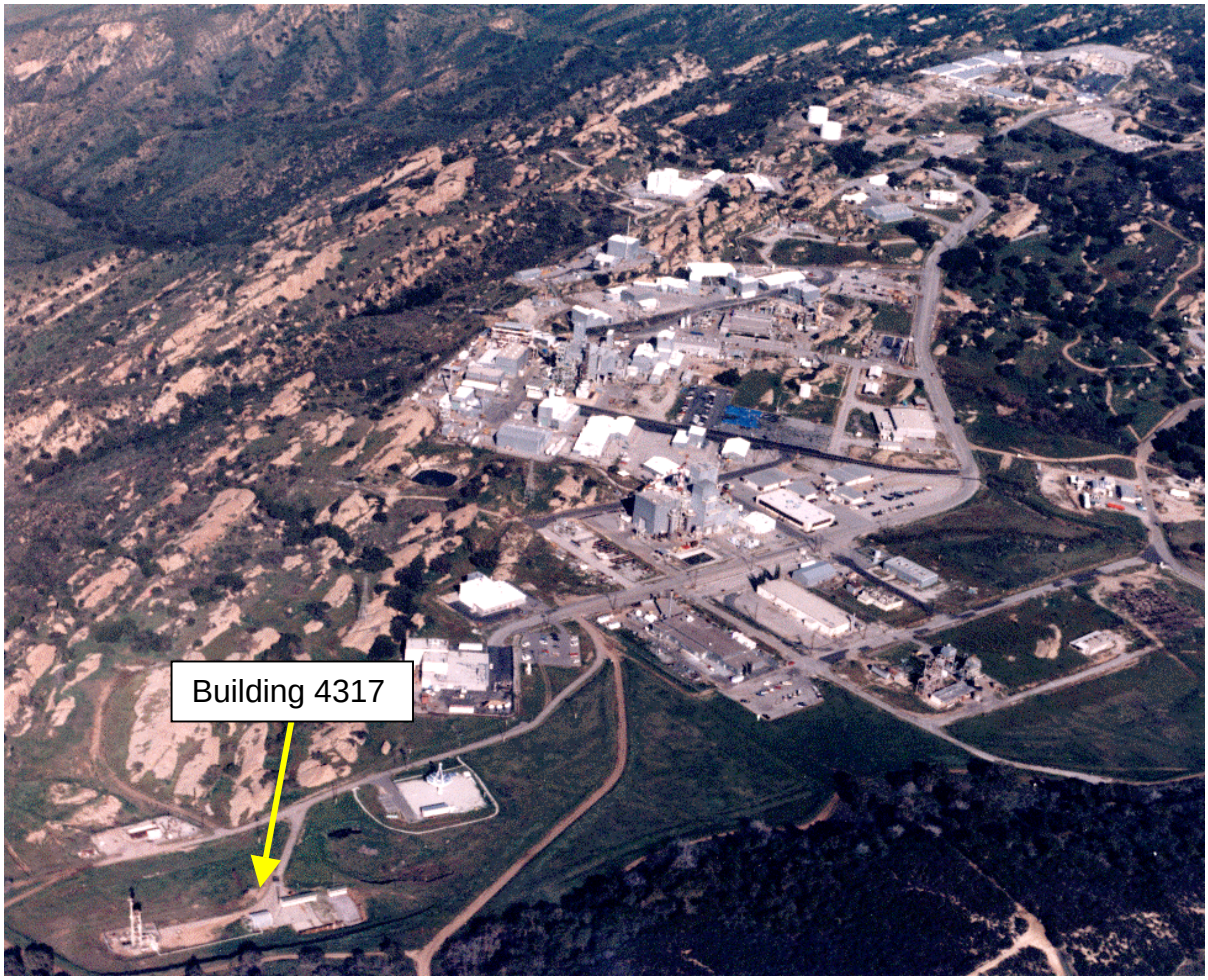
Status:

- Building 4317 has been demolished.

References:

1- Personnel Interview, Dan Trippeda, September 12, 2003.
2- Review of Radiation Safety Records Management System, 2003.
3- Rocketdyne Document, A4CM-ZR-0011, Rev. A, "Area IV Radiological Characterization Survey," August 15, 1996.
4- Historical Site Photographs from Boeing Database.
5- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.

Photograph – Building 4317



Site Summary – Building 4318

Site Identification:

Building 4318
Pistol Range

Operational Use/History:

- Building 4318 was used for shelter while firing a sidearm.[1]
- Building 4318 has been demolished.

Site Description:

- Building 4318 was a roofed area with open sides that was used to stand under while shooting firearms. There was an earthen berm down range to capture discharged bullets.[1]

Relevant Site Information:

- There are no Use Authorizations and no Incident Reports associated with Building 4318.[2]

Radiological Surveys:

- Radiological surveys specific to Building 4318 have not been conducted.
- This area was covered as part of the 1994-1995 Area IV Radiological Characterization Survey.[3]
  - Background: 15.6 µ/hr.
  - Acceptable Limit: Less than 5 µ/hr above background.
  - Survey results were below the acceptable limits.

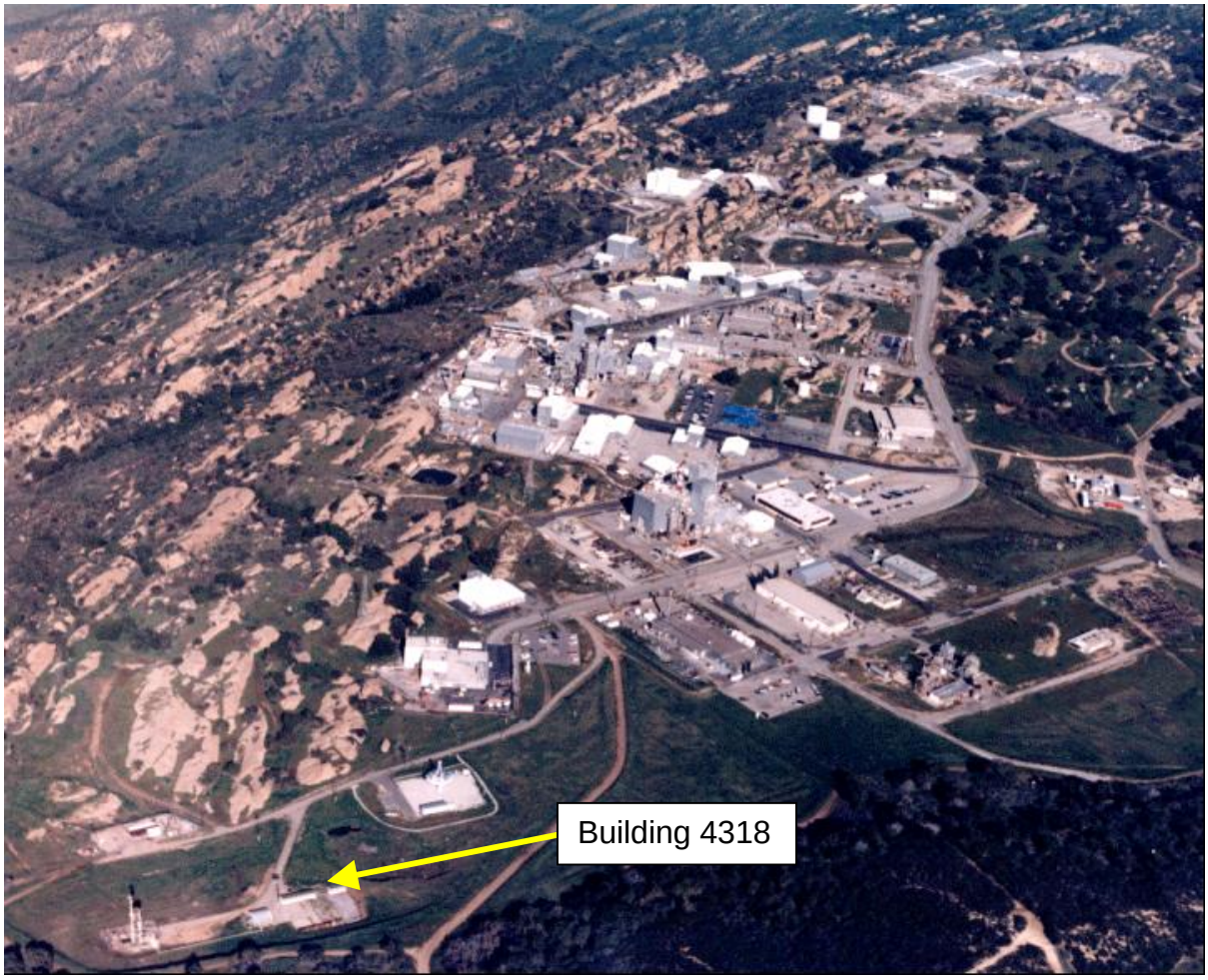
Status:

- Building 4318 has been demolished.

References:

1- Personnel Interview, Dan Trippeda, September 12, 2003.
2- Review of Radiation Safety Records Management System, 2003.
3- Rocketdyne Document, A4CM-ZR-0011, Rev. A, "Area IV Radiological Characterization Survey," August 15, 1996.
4- Historical Site Photographs from Boeing Database.
5- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.

Photograph – Building 4318



Site Summary – Building 4425

Site Identification:

Building 4425
Solar Concentrator Facility

Operational Use/History:

- Constructed in the middle 1980s.
- This building was used in experiments aimed at harnessing solar power.
- Building 4425 is still standing.

Site Description:

- This building was a 25 kWt parabolic dish-Sterling engine generator, which consisted of a mirrored parabolic dish concentrator, 10.7 m in diameter, and a solar receiver.[1]

Relevant Site Information:

- There are no Use Authorizations and no Incident Reports associated with Building 4425.[2]

Radiological Surveys:

- Radiological surveys specific to Building 4425 have not been conducted.
- This area was covered as part of the 1994-1995 Area IV Radiological Characterization Survey.[3]
  - Background: 15.6 µ/hr.
  - Acceptable Limit: Less than 5 µ/hr above background.
  - Survey results were below the acceptable limits.

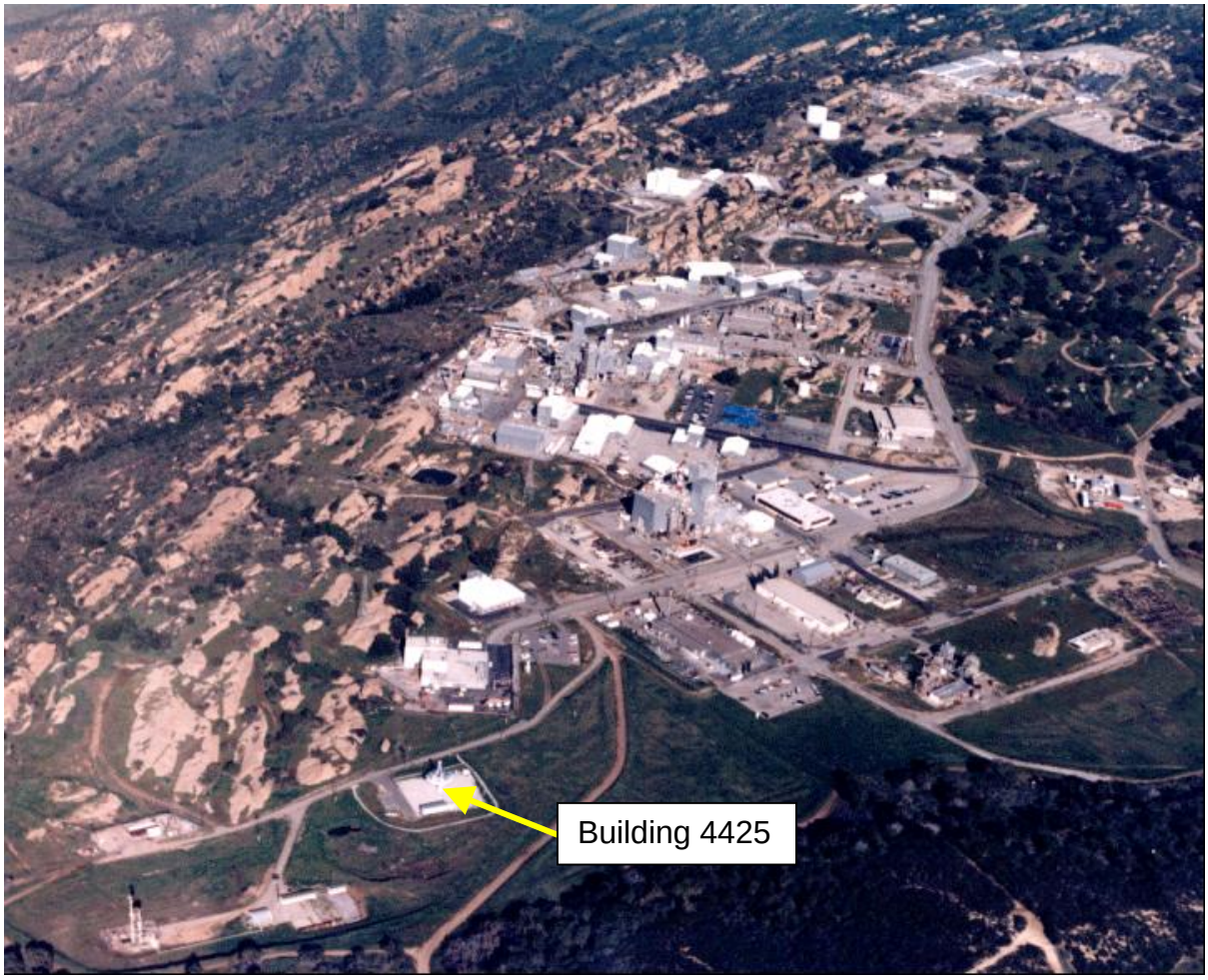
Status:

- Building 4425 is still standing.

References:

1- Boeing Document, no document number, "ETEC Resources & Capabilities," no date given.
2- Review of Radiation Safety Records Management System, 2003.
3- Rocketdyne Document, A4CM-ZR-0011, Rev. A, "Area IV Radiological Characterization Survey," August 15, 1996.
4- Historical Site Photographs from Boeing Database.
5- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.

Photograph – Building 4425



Site Summary – Building 4730

Site Identification:

Building 4730
Impact Test Control Building

Operational Use/History:

- Constructed in the late 1960s.
- This building appears on Industrial Planning Maps from 1967-1972.[1]
- This building housed the controls for the Isotope Impact System Test Device, Building 4820.
- Demolished in the middle 1970s.

Site Description:

- Building 4730 was located near the western corner of Area IV, south of H Street.

Relevant Site Information:

- There are no Use Authorizations and no Incident Reports associated with Building 4730.[2]

Radiological Surveys:

- Radiological surveys specific to Building 4730 have not been conducted.
- This area was covered as part of the 1994-1995 Area IV Radiological Characterization Survey.[3]
  - Background: 15.6 µ/hr.
  - Acceptable Limit: Less than 5 µ/hr above background.
  - Survey results were below the acceptable limits.

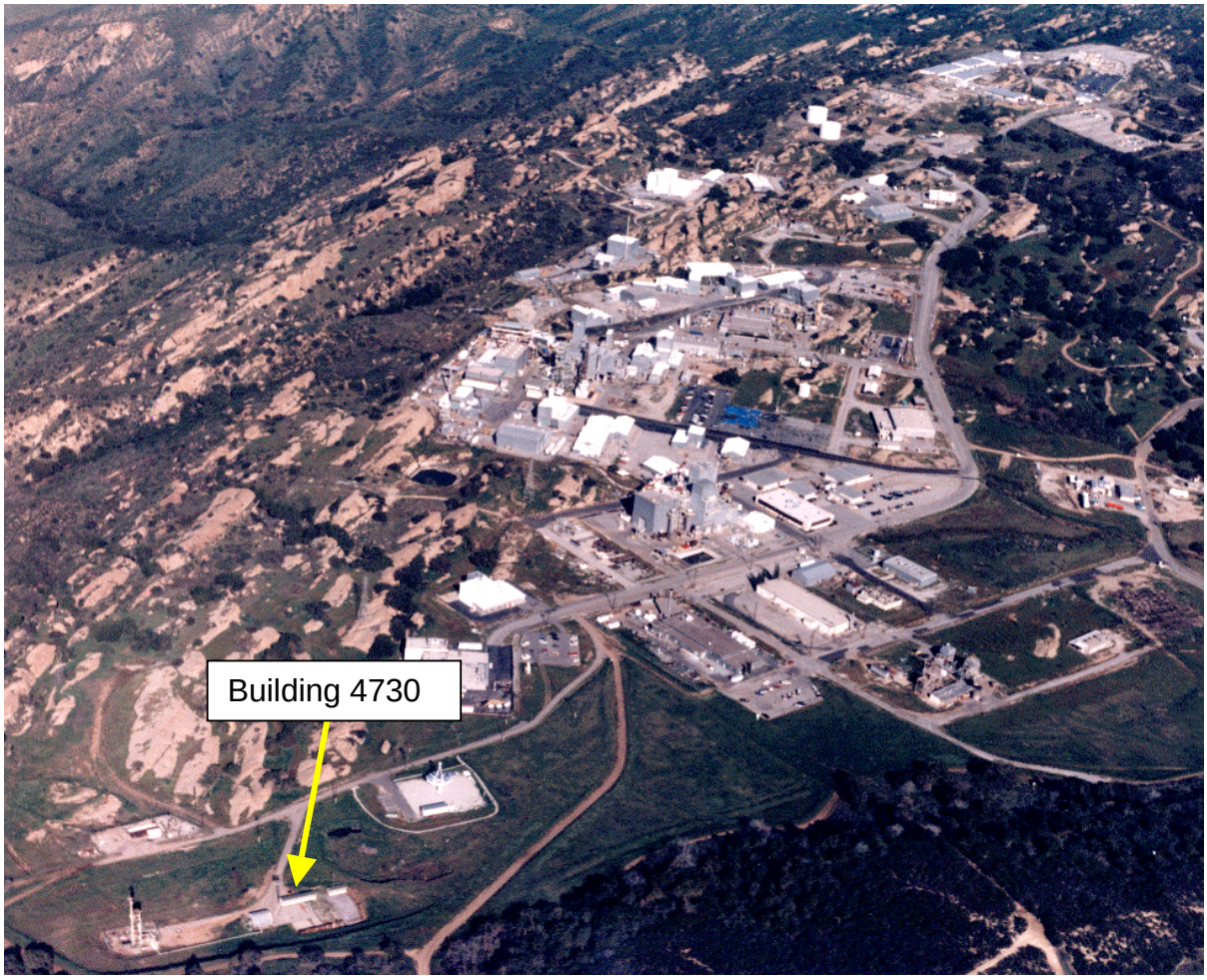
Status:

- Demolished in the late 1970s.

References:

1- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.
2- Review of Radiation Safety Records Management System, 2003.
3- Rocketdyne Document, A4CM-ZR-0011, Rev. A, "Area IV Radiological Characterization Survey," August 15, 1996.
4- Historical Site Photographs from Boeing Database.

Photograph – Building 4730



Site Summary – Building 4814

Site Identification:

Building 4814
Large Leak Injector Device (LLID)
Sodium Water Reaction Test Structure
Includes Building 4314, LLID Test Control Building
Includes Building 4514, Sodium-Water Reaction Test Center

Operational Use/History:

- Building 4814 was used in 1975 in tests that analyzed steam and water density at the point at which a pipe ruptured.[1]
- Building 4314 housed a control room for Building 4814 and Building 4514; the Sodium-Water Reaction Test Center was also associated with the buildings.
- Demolished in the late 1970s.

Site Description:

- Building 4814 was a small structure that sat at the western corner of Area IV, south of H Street and directly west of Building 4514.[2]

Relevant Site Information:

- Use Authorization 83, issue date November 7, 1974, permitted the use of a 25 Ci Cs-137 sealed source, which was checked annually to ensure no leakage occurred, in a DD Electronics Gamma Densitometer. This was used to measure steam density both inside pipes and during rupture.[1]
- Following each test using the gamma densitometer, radiological surveys were conducted to confirm that contamination had not occurred.[1]

Radiological Surveys:

- Radiological surveys specific to Building 4814 have not been conducted.
- This area was covered as part of the 1994-1995 Area IV Radiological Characterization Survey.[3]
    - Background: 15.6 µR/hr.
    - Acceptable Limit: Less than 5 µR/hr above background.
    - Survey results were below the acceptable limits.

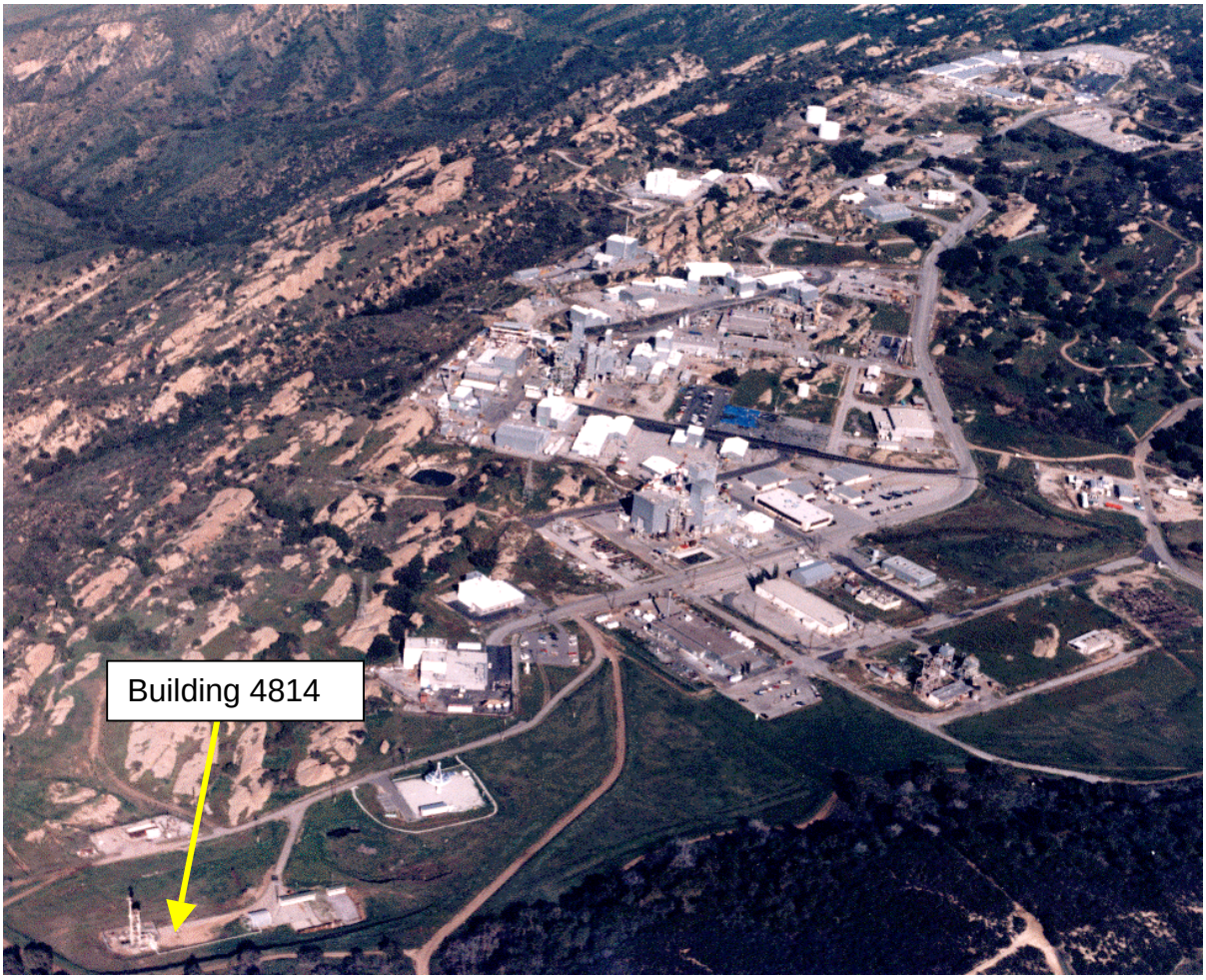
Status:

- Building 4814 and Building 4314 were demolished in the late 1970s.[4]

References:

1- Rockwell International, Use Authorization 83, "Use of DD Electronics Gamma Densitometer," November 7, 1974.
2- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.
3- Rocketdyne Document, A4CM-ZR-0011, Rev. A, "Area IV Radiological Characterization Survey," August 15, 1996.
4- Personnel Interview, Dan Trippeda, September 8, 2003.
5- Historical Site Photographs from Boeing Database.

Photograph – Building 4814



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Site Summary – Building 4820

Site Identification:

Building 4820
Isotope System Impact Test Device

Operational Use/History:

- Constructed in the late 1960s.[1]
- This building was used for impact testing of normal ZrH Fuel.
- Demolished in the middle 1970s.[1]

Site Description:

- Building 4820 was located south of H Street, adjacent to Building 4730.

Relevant Site Information:

- Use Authorization 5, issued on February 25, 1970, permitted possession of 1 kilogram of fuel that contains 10% (by weight) of normal U for impact testing of normal ZrH Fuel. This process involved firing a small mass (58.33g) of fuel into a granite target. This was repeated 12 times at varying velocities. The experiment was conducted in an enclosed casing with three openings, two for camera lenses and one for the projectile. Upon impact, each projectile was pulverized.[2]

Radiological Surveys:

- Radiological surveys specific to Building 4820 have not been conducted.
- This area was covered as part of the 1994-1995 Area IV Radiological Characterization Survey.[3]
    - Background: 15.6 µR/hr.
    - Acceptable Limit: Less than 5 µR/hr above background.
    - Survey results were below the acceptable limits.

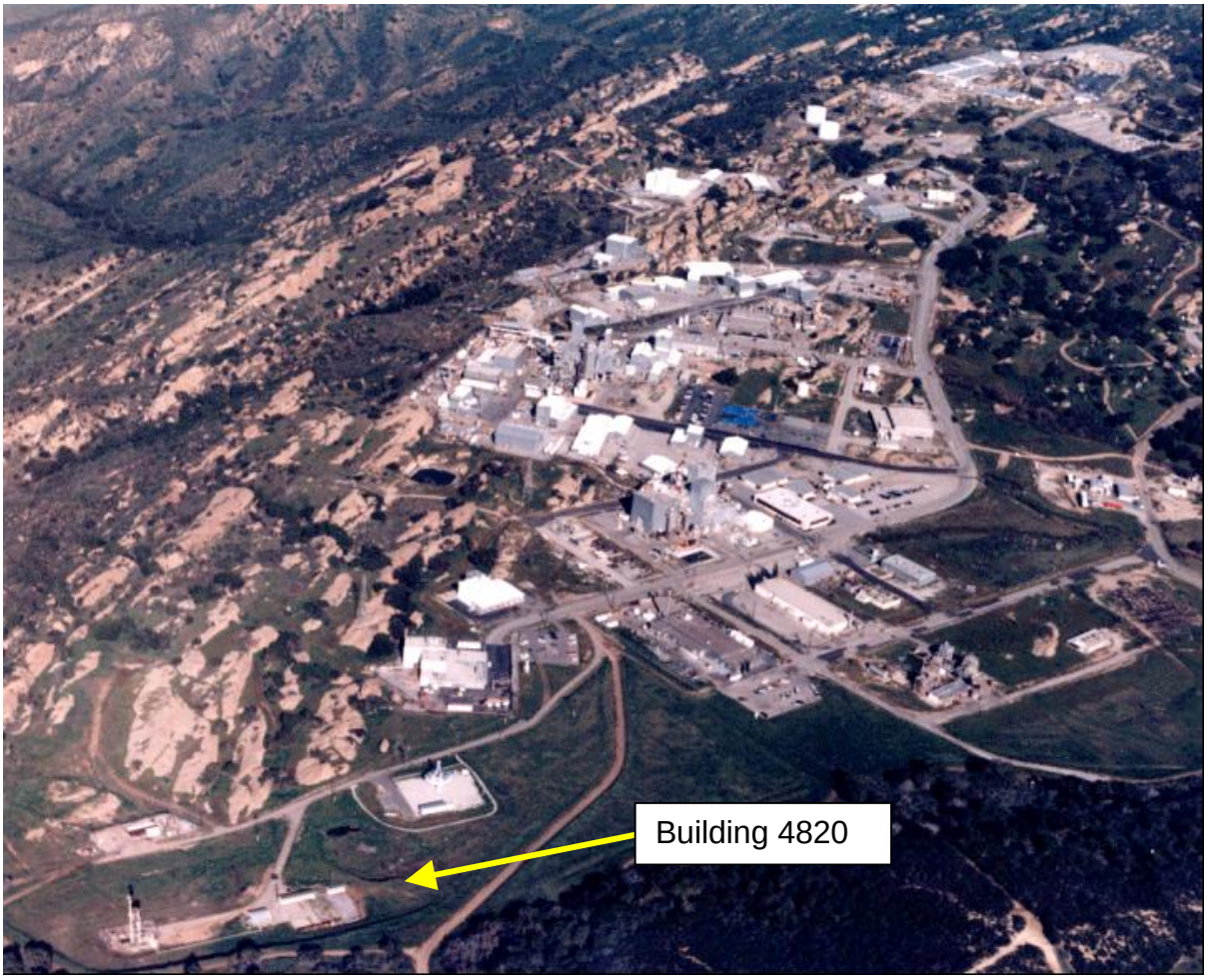
Status:

- Building 4820 was demolished in the middle 1970s.[1]

References:

1- SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.
2- Rockwell International Document, Use Authorization 005, “Impact Tests of Normal ZrH Fuel,” February 25, 1970.
3- Rocketdyne Document, A4CM-ZR-0011, Rev. A, “Area IV Radiological Characterization Survey,” August 15, 1996.
4- Historical Site Photographs from Boeing Database.

Photograph – Building 4820



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