PREFACE

In preparing this Historical Site Assessment (HSA) for the Santa Susana Field Laboratory Site Area IV Radiological Study, the U.S. Environmental Protection Agency (EPA) sought to provide the most comprehensive and far-reaching HSA possible. Among the voluminous amount of documents reviewed and ultimately used in preparing the HSA, several documents were used that have been identified as containing information potentially restricted by U.S. export control laws, including the Arms Export Control Act (22 U.S.C. section 2751 et seq.), the International Traffic in Arms Regulations (22 C.F.R. Part 120), the U.S. Department of Commerce's Export Administration Regulations (15 C.F.R. Parts 730-774), and the U.S. Department of Energy's Foreign Atomic Energy Activities Regulations (10 C.F.R. Part 810). These documents may only be reviewed by U.S., or persons. U.S. persons are U.S. citizens, U.S. nationals, lawful permanent residents of the U.S., or persons who are protected individuals as defined by 8 U.S.C. section 1324(b)(a)(3) (certain refugees and grantees of asylum). Transfer of controlled information by any means to a non U.S. person, whether in the U.S. or abroad, without a valid export license or prior written approval from the Department of State, Department of Commerce, or other relevant federal agency, is prohibited.

In order to provide the HSA to the broadest audience possible without encumbrances, EPA has chosen to prepare a redacted version of the HSA to comply with U.S. law. This means that certain passages within this version of the HSA containing information potentially restricted by U.S. export control laws have been made illegible in order to protect this sensitive information while maintaining the original flow and organization of the HSA. It should be noted that as a percentage of the total HSA, the passages that have been redacted comprise less than 1 percent of the HSA.

Per agreement with EPA's interagency partner at the Santa Susana Field Laboratory Site, the California Department of Toxic Substances Control (DTSC), EPA has provided an unredacted version of this HSA, with all parts made legible, for public review should a member of the public wish to review the entire HSA. Members of the general public who wish to review the entire HSA without redactions should contact the DTSC and make an appointment to do so. At the time of the appointment, DTSC will verify whether the individual requesting the review is a U.S. person and only U.S. persons will be permitted to read the passages that have been redacted. However, the information presented in those passages will remain under the purview of U.S. export control laws and cannot be removed from the DTSC office or copied or transmitted in any form.

To make arrangements to review the full version of the HSA report, including information restricted under the export control laws of the U.S., members of the public should contact the following DTSC office:

California Department of Toxic Substances Control 9211 Oakdale Avenue Chatsworth, CA 91311 Phone: (818) 717-6500 This page intentionally left blank.

FINAL

HISTORICAL SITE ASSESSMENT SANTA SUSANA FIELD LABORATORY SITE AREA IV RADIOLOGICAL STUDY VENTURA COUNTY, CALIFORNIA

Prepared for:



EPA Contract Number: EP-S7-05-05 Task Order Number: 0038

U.S. Environmental Protection Agency, Region 7 901 North 5th Street Kansas City, KS 66101 and U.S. Environmental Protection Agency, Region 9 75 Hawthorne Street San Francisco, CA 94105

Prepared by:

HydroGeoLogic, Inc. Northway 10 Executive Park 313 Ushers Road Ballston Lake, New York 12019

October 2012

Redacted



This page intentionally left blank

TABLE OF CONTENTS

Section

1.0	INTR	DUCTION		1
	1.1			
		1.1.2 Technical Memorand	um (TM) Contributions to Sampling Approach.	3
		1.1.3 TM Site Summary M	ethodology	5
			gical HSA	
		1.1.5 HSA Goals and Meth	odology	9
	1.2	TM Key Findings Pertaining	to Sampling Approach	9
		1.2.1 HSA-5A		10
		1.2.2 HSA-5B		13
		1.2.3 HSA-5C		16
		1.2.4 HSA-5D		17
		1.2.5 HSA-6		19
		1.2.6 HSA-7/3/NBZ		19
		1.2.7 HSA-8		22
	1.3	Radionuclide List to be Used	in Soil and Groundwater Sampling	24

Plate 1

Area IV Buildings of Interest, Santa Susana Field Laboratory

LIST OF TABLES

Table 1.1	Research Reactors Located at the Santa Susana Field Laboratory	
Table 1.2	Criticality Test Facilities at the Santa Susana Field Laboratory	5
Table 1.3a	Summary of Subarea HSA-5A Sites, Potential Radiological	
	Contaminants of Concern	25
Table 1.3b	Summary of Subarea HSA-5B Sites, Potential Radiological	
	Contaminants of Concern	27
Table 1.3c	Summary of Subarea HSA-5C Sites, Potential Radiological	
	Contaminants of Concern	35
Table 1.3d	Summary of Subarea HSA-5D Sites, Potential Radiological	
	Contaminants of Concern	37
Table 1.3e	Summary of Subarea HSA-5E Sites, Potential Radiological	
	Contaminants of Concern	39
Table 1.3f	Summary of Subarea HSA-7, HSA-3, and NBZ Sites, Potential	
	Radiological Contaminants of Concern	42
Table 1.3g	Summary of Subarea HSA-8 Sites, Potential Radiological	
č	Contaminants of Concern	44

LIST OF VOLUMES AND APPENDICES

Volume I	Final Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California, December 2011						
Appendix A Aerial Photographic Analysis of Santa Susana Field Laboratory, A Ventura County, California, March 2010							
Appendix B	Final Former Employee Interview Report, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California, November 2011						
Volume II	Final Technical Memorandum, Subarea HSA-5A, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California						
Volume III	Final Technical Memorandum, Subarea HSA-5B, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California						
Volume IV	Final Technical Memorandum, Subarea HSA-5C, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California						

Volume V	Final Technical Memorandum, Subarea HSA-5D, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California
Volume VI	Final Technical Memorandum, Subarea HSA-6, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California
Volume VII	Final Technical Memorandum, Subarea HSA-7/3/NBZ, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California
Volume VIII	Final Technical Memorandum, Subarea HSA-8, Historical Site Assessment, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California

LIST OF ACRONYMS AND ABBREVIATIONS

AETR	Advanced Epithermal Thorium Reactor
AOC	Administrative Order on Consent
CD CDPH CERCLA	compact disc California Department of Public Health Comprehensive Environmental Response, Compensation, and Liability Act
Ci	Curie
D&D	decontamination and decommissioning
DOE	Department of Energy
DTSC	Department of Toxic Substances Control
USEPA	U.S. Environmental Protection Agency
EPIC	Environmental Photographic Interpretation Center
ETEC	Energy Technology Engineering Center
HGL	HydroGeoLogic, Inc.
HEPA	high-efficiency particulate air
HSA	Historical Site Assessment
kW	kilowatt
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
mR/hr	milli roentgens per hour
MWd	megawatt days
NASA	National Aeronautics and Space Administration
NBZ	Northern Buffer Zone
NRC	Nuclear Regulatory Commission
RMHF	Radioactive Materials Handling Facility
SBZ	Southern Buffer Zone
SCA	SNAP critical assembly
SNAP	Systems for Nuclear Auxiliary Power
SSFL	Santa Susana Field Laboratory
ТМ	technical memorandum

FINAL HISTORICAL SITE ASSESSMENT SANTA SUSANA FIELD LABORATORY SITE AREA IV RADIOLOGICAL STUDY VENTURA COUNTY, CALIFORNIA

1.0 INTRODUCTION

This Historical Site Assessment (HSA) was prepared by HydroGeoLogic, Inc. (HGL) as one of a series of tasks assigned by the U.S. Environmental Protection Agency (EPA) for conducting a radiological characterization study within the area of the Santa Susana Field Laboratory (SSFL) known as Area IV and the Northern Buffer Zone (NBZ). This combined study area is hereafter called the "Area IV Study".

EPA's study consisted of an HSA, gamma scanning of accessible areas, geophysical surveys, and evaluation of past soil sampling results. The HSA therefore provides one line of evidence to be used along with the gamma scanning, geophysical surveys, and results of past soil analyses in EPA's overall Area IV Study.

The objective of the HSA component of the radiological study was to provide a comprehensive investigation that identifies, collects, organizes, and evaluates historical information relevant to nuclear research operations as it pertains to radiological contamination in the Area IV Study Area. Once these areas were identified, potential areas where radiological contamination may exist at the site were identified for sampling.

EPA's Area IV Study was divided into nine subareas, which were addressed in seven Technical Memoranda (TMs). Historical aerial photographic analysis and process history obtained from former employee interviews were also considered during this study. The comprehensive HSA is presented in a series of eight volumes on eight compact discs (CDs) as follows:

- Volume I: Final Historical Site Assessment Appendix A: Aerial Photographic Analysis Appendix B: Final Former Employee Interview Report
- Volume II: Final Technical Memorandum, Subarea HSA-5A
- Volume III: Final Technical Memorandum, Subarea HSA-5B
- Volume IV: Final Technical Memorandum, Subarea HSA-5C
- Volume V: Final Technical Memorandum, Subarea HSA-5D
- Volume VI: Final Technical Memorandum, Subarea HSA-6
- Volume VII: Final Technical Memorandum, Subarea HSA-7/3/NBZ
- Volume VIII: Final Technical Memorandum, Subarea HSA-8

1.1 EPA HSA Process Overview

The following sections provide an overview of the overall HSA process implemented at the SSFL Area IV Study area.

1.1.1 HSA Preparation

The overall HSA process for the Area IV study area included development of the following distinct reports, which were produced independently and then integrated in eight volumes into this single, combined HSA:

- Final HSA, which includes an overview of the HSA process employed at the site.
- Aerial Photographic Analysis of Santa Susana Field Laboratory, Area IV, Ventura County, California, March 2010.
- Final Former Employee Interview Report, Santa Susana Field Laboratory Site, Area IV Radiological Study, Ventura County, California, February 2012.
- Seven Final TMs, which pertain to the nine subareas comprising the Area IV Study area.

In order to facilitate rapid communication of HSA findings to the HGL field teams, while also ensuring that the project's stakeholders had the opportunity to provide insight and comments to the process, the TMs were completed using an ongoing schedule. Thus the findings of each TM could be rolled out for field team use in determining sampling locations while completion of other TMs continued.

The development of the seven TMs served as the primary basis for valuable SSFL stakeholder involvement and participation in planning the Area IV radiological investigation. The process of preparing draft TMs, soliciting stakeholder comments, presenting findings at stakeholder meetings, preparing responses to stakeholder comments, and preparing final versions of each TM has ensured that this final HSA is as complete as possible in addressing stakeholder concerns at the site.

Each TM provided recommended locations for soil/sediment sampling based on an evaluation of the information obtained for each subarea discussed. These recommendations were based solely on historical information and not on-the-ground evaluation. Rather, the TM recommendations were analyzed by field personnel who would be engaged in gamma scanning, geophysical surveys, and soil and water testing.

The stakeholders were also engaged in the process of analyzing HSA recommendations and determining appropriate sampling locations at two points in the information analysis process. First, stakeholders participated in general public visits to the site, normally held once or twice a month. During these visits, the stakeholders viewed the sites identified in the TMs and discussed them with field personnel. Second, during stakeholder technical meetings, the stakeholders and field personnel discussed and decided upon specific sampling points. Thus the stakeholders were able to actively work with EPA to determine the best possible sampling locations to ensure a complete radiological study. The methodology for determining sampling locations, as well as the findings of the various field investigation efforts, are presented in separate reports of findings.

The HSA and the Former Employee Interview Report, presented in Volume I, were prepared by HGL on behalf of EPA. The Aerial Photographic Analysis, also presented in Volume I, was prepared by EPA. The TMs, presented in Volumes II through VIII, were prepared by HGL on behalf of EPA.

The HGL HSA team consisted of four staff members: a team leader and three primary authors. Each primary author was assisted on a rotational basis, when possible, by other members of the HSA team. After a TM was submitted for stakeholder review, that TM's primary author was then assigned either to another TM or to assist another primary author with their assigned TM. Together, the HSA team represented nearly 55 years of experience at HGL performing environmental research and investigations. Therefore, a relatively small HSA team was utilized. The HGL HSA team worked under the direction and oversight of several HGL senior technical staff members, as well as EPA senior technical staff members and project managers.

The HGL HSA team leader was Mr. Eric Dambaugh. The three primary HGL HSA authors were as follows:

- Ms. Jessica Berg: HSA-5A and HSA-5D TMs.
- Ms. Kimberly Clower: HSA-5B and HSA-7/3/NBZ TMs; Former Employee Interview Report.
- Ms. Victoria Guvanasen: HSA-5C, HSA-6, and HSA-8 TMs.

The content of each TM was based on guidance provided in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM, Revision 1, August 2000). MARSSIM is used as an investigative tool used to gain an understanding of the nature and extent of radiological contamination left at a site. The TMs provide preliminary recommendations for MARSSIM classifications based solely on historical information that may be updated once additional information is available pertaining to the presence of radiological contamination at these various areas and facilities within Area IV.

Each of the seven TMs presents a summary of the identified environmental concerns associated with past radiological operations within the Area IV Study portion of the SSFL site, which consists of four areas: Areas I, II, III, and IV; and two buffer zones: the NBZ and the Southern Buffer Zone (SBZ). With the exception of 452 acres owned by the U.S. Government in Areas I and II, which are outside of the Area IV Study area, the entire SSFL site, including the NBZ, is owned and operated by the Boeing Company.

EPA divided the Area IV Study Area into subareas, which were addressed in the following TMs: HSA-5A, HSA-5B, HSA-5C, HSA-5D, HSA-6, HSA-7/3/NBZ, and HSA-8.

1.1.2 Technical Memorandum (TM) Contributions to Sampling Approach

Preliminary findings based on historical documentation only (i.e., before EPA's field investigation activities) were presented in the TMs and include:

- Descriptions and locations of potential, likely, or known activities that involved radioactive material, radioactive waste, or mixed waste;
- Initial MARSSIM classifications (e.g., Class 1, 2, 3) of potentially impacted areas;
- A site-by-site assessment of the likelihood or "weight of evidence" of radiologically contaminated media;
- An assessment of the likelihood of potential migration pathways; and,
- Identification of, confirmation of, and, if appropriate, addition or subtraction to, the list of the potential radiological contaminants of concern.

The information provided in each TM together with comments and recommendations provided by SSFL stakeholders and the general public was used in the EPA's investigation strategy for sampling and analysis for residual radiological contamination in surface and subsurface soil within each subarea.

Each TM (found in Volumes II through VIII of this HSA) presents findings relative to the abovestated criteria. Nuclear facilities at the U.S. Department of Energy's (DOE) Energy Technology Engineering Center (ETEC), parts of which were located within subareas HSA-5A, HSA-5B, HSA-5C, HSA-6, HSA-7, and HSA-8, included 10 nuclear research reactors over the period July 1956 through February 1980. These research reactors are listed in Table 1.1, below, and depicted on Plate 1.

Reactor Acronym	Building No.	Facility Name	Power Level (kW)	Period of Operation	Power Generated (MWd)	Radioactivity at End of Operation (10 ³ Ci)
KEWB	4073	Kinetics Experiment Water Boiler	1	7/1956 to 11/1966	1	6
L-85/AE-6	4093	L-85 Nuclear Experimentation Reactor	3	11/1956 to 2/1980	2	18
SRE	4143	Sodium Reactor Experiment	20,000	4/1957 to 2/1964	6,700	120,000
SER	4010	Systems for Nuclear Auxiliary Power (SNAP) Experimental Reactor Facility	50	9/1959 to 12/1960	13	300
S2DR	4024	SNAP Environmental Test Facility	65	4/1961 to 12/1962	13	390
STR	4028	Shield Test Irradiation Facility	50	12/1961 to 7/1964	1	300
S8ER	4010	S8ER Test Facility	600	5/1963 to 4/1965	215	3,600
STIR	4028	Shield Test Irradiation Facility	1,000	8/1964 to /1974	28	3,714
S10FS3	4024	SNAP Environmental Test Facility	37	1/1965 to 3/1966	16	6,000
S8DR	4059	SNAP Development Reactor Facility	619	5/1968 to 12/1969	182	220

 Table 1.1

 Research Reactors Located at the Santa Susana Field Laboratory¹

Seven criticality test facilities (i.e., facilities housing operations involving masses of fissionable material capable of sustaining a nuclear chain reaction) were also located on Area IV.² These are listed in Table 1.2, below, and on Plate 1. Other nuclear facilities within Area IV, in subareas HSA-7/3/NBZ, HSA-5D, and HSA-8, respectively, included the Radioactive Materials Disposal Facility (Building 4021), the Hot Laboratory (Building 4020), and the Sodium Disposal Facility, or Area IV burn pit, (Building 4886). Each of these facilities is addressed as a site within the appropriate TM along with supporting buildings and open areas.

¹ Oldenkamp, R.D. and Mills, J. C., *Nuclear Operations at Rockwell's Santa Susana Field Laboratory – A Factual Perspective*, Rockwell International; Report No. N001ER000017, September 6, 1991, p. 23.

² Atomics International, A Division of North American Aviation, Inc., *Atomics International*, December 1959

Facility Name	Building No.	Period of Operation	Notes
SNAP Critical Test	4373	1957 to 1963	First SNAP-2 criticality tests
Organic Moderated	4009	1958 to 1967	Basic tests of reactor concept
Reactor			
Sodium Graphite Reactor	4009	1958 to 1967	Basic tests of reactor concept
SNAP Critical Equipment	4012	1961 to 1971	Later SNAP criticality tests
Fast Critical Experiment	4100	1961 to 1972	Started as Advanced Epithermal
_			Thorium Reactor (AETR)
SNAP Flight Systems	4019	1962	SNAP flight system criticality
SNAP Transient Test	4024	1967 to 1969	SNAP transient response tests

 Table 1.2

 Criticality Test Facilities at the Santa Susana Field Laboratory³

1.1.3 TM Site Summary Methodology

In preparing the TMs, the following types of documents and information sources were reviewed:

- radiological characterization reports;
- previous radiological surveys;
- D&D reports;
- environmental monitoring reports;
- license termination reports;
- aerial photographs dating back 50 years;
- building floor plans;
- piping diagrams and construction drawings;
- RFI reports;
- unusual occurrence reports;
- incident reports;
- plant operating reports and logs;
- safety analyses reports;
- facility surveillance and maintenance reports; and
- information obtained from interviews with former workers or other persons.

Numerous documents were obtained through information requests sent to Boeing, DOE, and other parties including the National Aeronautics and Space Administration (NASA). EPA sent formal information requests to Boeing, DOE, the Nuclear Regulatory Commission (NRC) and the California Department of Public Health (CDPH) under § 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In addition, EPA directed Boeing to identify and provide pertinent documents within a number of document databases comprising approximately 1.4 million documents relating to all areas of the SSFL site, including Area IV, as well as some off-site facilities.

³ Oldenkamp, R.D. and Mills, J. C., *Nuclear Operations at Rockwell's Santa Susana Field Laboratory – A Factual Perspective*, Rockwell International; Report No. N001ER000017, September 6, 1991, p. 25.

Additional details regarding the execution of these information requests can be found in each TM (Volumes II through VIII of this HSA).

1.1.4 TMs and the Radiological HSA

The subject areas considered and addressed for each site discussed in Section 2 of each TM are presented below. For each subject area, the list of criteria evaluated and the associated parameters for the evaluation are described. The most complete available information was used to evaluate the site; no known information was omitted from the description. In the event that known information did not conform to one of the listed subject areas, it was included in the most logical place.

Site Description

A physical description of the site including, at a minimum, the following data elements: building numbers of all buildings within the site; date of construction of building(s); buildings in the vicinity not associated with the site; location of site relative to street(s); site plan(s); and floor plan(s) from as-built or plan drawings, if available.

Building Features

Information related to dimensions or size of building(s), below-ground structures, vaults, pipelines, sumps, condensation lines, sewers, drains, swales, and leach fields. If none of these features were identified, the text "no information was located" was inserted.

Former Use(s)

Details of past use(s) of the site, including dates of activities.

Information from Interviewee(s)

This category includes information about the site provided by interviewee(s). If no information was obtained for a particular site, the text "none to date" was inserted. Individuals who have been interviewed include:

- Former SSFL Employees (e.g., health physicists, electricians, mechanics, construction inspectors, nuclear technicians, etc.);
- Survivors of Former Employees;
- Former Contractors (and one survivor of a former Contractor);
- Community Stakeholders; and
- Residents in surrounding areas.

At the discretion of the Interviewee, each interview is conducted either by representatives of the EPA only, representatives of the DOE only, or jointly by EPA and DOE representatives. EPA's primary objective of the interview program was to help direct the soil sampling crews to potential source areas of radiological contamination identified during the course of each interview. All information on potential source areas, corroborated or not, was recorded in EPA's HSA process.

Details regarding the interviews conducted by EPA are presented in Appendix B (found in Volume I) of this HSA.

Radiological Incident Reports

Reports on any documented incidents at the site with the potential for release of radioactivity into the environment. If no incident reports were found, the text "none found" was inserted.

Current Use

Current use of the site, or date of demolition of building/structure.

Previous Radiological Investigation(s) and Decontamination/Cleanup of Release(s)

Previous radiological investigations such as surveys, decontamination activities, and cleanup activities were evaluated. The evaluation of previous investigations and cleanups addressed, at a minimum, the following elements:

- agency conducting the investigation;
- purpose of the investigation;
- dates of the investigation;
- details of releases inside building, to air, to soil, and to surface water, as applicable;
- decontamination/cleanup activities; and
- final survey results.

Radiological Use Authorizations

Use authorizations have been defined as issuance of a license for radioactive material(s) from an appropriate regulatory agency. All known licenses issued for the site were included; if none were found, the text "none found" was inserted.

Former Radiological Burial or Disposal Locations

A description of known burials and/or disposals of radiological materials on the site, including applicable dates, if known. If no documented burials and/or disposals were identified, the text "none found" was inserted.

Aerial Photographs

The applicable photographic analyses from the report prepared by the EPA's Environmental Photographic Interpretation Center (EPIC) in March 2010 were included for each site. These analyses include photographs from the following dates:

- December 22, 1952;
- August 19, 1957;
- August 21, 1959;
- Approximately 1960 plus or minus a year;
- March 1, 1965;
- August 13, 1967;
- April 20, 1972;
- May 16, 1978;
- October 21, 1980;

- August 21, 1983;
- October 10, 1988;
- June 19, 1995; and
- June 8, 2005.

Aerial photograph anomalies were interpreted as a trigger for assigning a higher scrutiny to a particular site than other information (such as historical documents) would indicate.

Details regarding EPA's aerial photographic analysis can be found in Appendix A (found in Volume I) of this HSA.

Radionuclides of Concern

Radionuclides used/generated at the site. This description includes, at a minimum, the types of radiological material(s) managed at the site; radionuclides known or suspected to have been handled or generated on the site; and how the identified radionuclides impact the list of radionuclides of concern in the background study. If no information was available, the text "none found" was inserted. It is important to note that not every radionuclide listed in this HSA will have a sample analysis. The radionuclides are listed for completeness, indicating that they have been mentioned or discussed in a cited document or report. However, many of the facility and site reports reflect the conditions at the time, thus every mention of a specific radionuclide does not mean it would be present now, due to decay. For this reason, the Radionuclides of Concern tables list radionuclides that will be analyzed and does not include those that would have decayed in the years since operations ceased.

Drainage Pathways

This category includes information on the direction of surface water flow on the site and the presence of sanitary drains, storm drains, channels/ditches, septic systems, or leach fields on or near the site.

Radiological Contamination Potential

The potential for radiological contamination was evaluated for each site. Evaluations included consideration of the completeness of past cleanup and remedial operations. Many past clean-up efforts likely did not achieve the requirements of the California Department of Toxic Substances Control (DTSC)/DOE AOC dated December 2010 that generally requires a cleanup to background levels for both radiological and chemical contaminants. Background studies for the site were completed with EPA leading the radiological background study and the DTSC leading the chemical background study. The potential for radiological contamination is quantified in the TMs by assigning a preliminary MARSSIM class describing the possibility for residual radiological contamination at the site based on all information collected to date. The basis for assigning the preliminary MARSSIM classification includes an examination of the following data elements:

- historical site operations;
- previous radiological investigations;
- reported incidents of releases;
- decontamination and remediation operations at the site;

- interviews with former workers;
- drainage pathways on or near the site;
- aerial photograph interpretation; and
- site reconnaissance.

1.1.5 HSA Goals and Methodology

As previously stated, the objective of the HSA component of the radiological study was to provide a comprehensive investigation that identifies, organizes, and evaluates historical information relevant to nuclear research operations as it pertains to radiological contamination in the Area IV Study area. Once these areas were identified, potential areas where radiological contamination may exist were identified for sampling.

Each TM provided recommended locations for soil/sediment sampling based on an evaluation of the information obtained for each subject area discussed. The criteria evaluated are presented below. These recommendations were analyzed by EPA field personnel who would be engaged in gamma scanning, geophysical surveys, and soil and water testing. As an integral part of the process of choosing sampling locations, field personnel, along with several stakeholders who participated in numerous site reconnaissance and planning meetings, used the TM recommendations to determine the best possible sampling locations to ensure a complete radiological study.

Recommended Locations for Soil/Sediment Sampling

For each site, recommendations were made for possible targeted soil/sediment sampling locations. The selection of potential sampling locations was based on locations with the highest potential for radiological contamination as well as at the particular site based on all known information collected to date. The criteria evaluated for developing recommended soil/sediment sampling locations include the following:

- topography of the site;
- historical site operations;
- radiological investigations;
- reported incidents of releases;
- decontamination/cleanup operations at the site;
- interviews with former workers;
- storm drains on or near the site;
- sewer lines on or near the site;
- aerial photograph interpretation; and
- site reconnaissance.

1.2 TM Key Findings Pertaining to Sampling Approach

The key findings of each TM as they pertain to determining appropriate sampling locations are depicted on each of the plates corresponding to the nine subareas within the Area IV Study Area.

These plates are presented in the seven TMs that address the nine subareas (Volumes II through VIII of this HSA).

The annotations on these plates, as well as the recommendations for soil/sediment sampling made that the end of the discussion of each site, were analyzed by EPA field personnel who would be engaged in gamma scanning, geophysical surveys, and soil and water testing, as well as numerous stakeholders who participated in site reconnaissance and planning meetings.

A summary of the key findings as presented in each TM's respective plates is as follows:

1.2.1 HSA-5A

Building 4024

Plate 1 and Figure 2.1 of the HSA-5A TM (found in Volume II of this HSA) provide a convenient reference for the following recommendations.

Based on the available information, soil sampling is recommended in the Building 4024 area. There were radiological incidents at Building 4024 and documented evidence of radiological releases. Significant information is lacking regarding the excavation activities at Building 4024.

In addition, previous characterization studies for the Building 4024 area were focused on delineating the extent of contamination to standards that were applicable at the time. Therefore, additional characterization is recommended for the Building 4024 area. This includes the following Building 4024 areas and appurtenances:

- The locations of the two August 1996 Area IV Radiological Characterization Survey samples northeast of Building 4024 and west of Building 4024 in a dirt area. Elevated soil activity was located in Sample ID 95-0105 located northeast of Building 4024 where Cs-137 measured at 0.37 pCi/g. Sample ID 95-0106 also contained Cs-137 at 0.34 pCi/g and was located west of Building 4024 in a dirt area.⁴
- The location of the gas holdup tanks and liquid waste tanks. Interviewee 255 made reference to the removal of tanks that were "potentially holding radioactive gases at one time"; however, it is unclear whether the tanks being referred to include those identified as possible sampling locations.
- The outside storage area west of Building 4024. In 1967 and 1972, an open storage area is visible just west of Building 4024 with drainage trending west, southwest. The open storage area is no longer present in 1978 and the drainage channel has been replaced by an escarpment. In 1980, the open storage area west of the building has returned and dark-toned material is visible at the southeast corner of the building. Possible leakage is visible on the west side of the building in the 1983 aerial photographs. In 1988, an open storage area is again present on the west side of the building but is no longer visible in 1995.⁵

⁴ Rocketdyne, A4CM-ZR-0011, Area IV Radiological Characterization Survey, Final Report, Volume I, August 15, 1996. pgs. 39, 108, 109.

⁵ U.S. EPA, Environmental Photographic Interpretation Center Draft Report, March 2010.

- The Cooling Tower 4928 sump and the footprint of Site 4927 (nitrogen storage tank) should be sampled due to limited information on cooling tower operation and sump use during building operations.
- The area east of the building where reactors were brought in and removed from the facility. This area also includes the waste storage tanks. Below-ground radioactive waste storage facilities are located under asphalt in the yard. The buried tanks include three radioactive gas holdup tanks 6 feet in diameter and 40 feet long, eight solid radioactive waste storage vaults 3 feet in diameter and 4 feet deep, and two liquid radioactive waste holdup tanks. These tanks were placed on top of a concrete box filled with gravel designed to contain any accidental leakage.^{6,7}
- The former location of the apparent leakage of an unknown container at Building 4024 that appears to leak north-northeast toward the northwest corner of Building 4027 in 1980 aerial photographs. In the 1983 aerial photographs two possible stains are visible on the northeast corner of the building where the previous probable container leakage had been visible.⁸

Building 4073

Plate 1 and Figure 2.1 provide a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4073 area. Previous investigation found radiological contamination in Building 4073. In addition, previous characterization studies for the Building 4073 area were focused on delineating the extent of contamination to standards that were applicable at the time. Therefore, additional characterization is recommended for the Building 4073 area. This includes the following Building 4073 areas and appurtenances:

• The former locations of the underground storage tanks and their drain lines associated with building operations. Located west of Building 4073, the tanks comprised three underground tanks and a 60-foot exhaust stack with a 2,000-cubic foot per minute blower system. A 300-gallon collection tank was used to collect gas directly from the reactor system. A 1,000-gallon storage tank buried beneath floor level and adjacent to the test building retained all liquid waste from the facility. The tank was equipped with pumpout connections for removal of the liquid waste when necessary. Another 1,000-gallon tank was originally used to retain the reactor cooling water so that it could be checked for activity prior to release. That tank appears to have drained through a 2-inch line to the west and then south of the KEWB facility.^{9,10,11} Removal of the tanks and lines, as well as their operation, may have left residual contamination above background values in the area.

⁶ Atomics International Document, N704FDP990006 Rev. A., "Building T024 (SETF) Facilities Dismantling Plan," July 31, 1981.

⁷ Remley, M.E., Atomics International, Letter Re: Comments on Draft Reactor Safety Survey Report for Building 024, July 21, 1965.

⁸ U.S. EPA, Environmental Photographic Interpretation Center Draft Report, March 2010.

⁹ Rockwell International Report, AI-ERDA-13159, "KEWB Facilities Decontamination and Disposition Final Report," February 25, 1976.

¹⁰ Flora, J.W., Atomics International, *KEWB Radiological Emergency Plan*, January 14, 1960. HDMSP01637672

¹¹ Atomics International, FDP-704-990-002, *Dismantling Plan for KEWB Facility (Bldgs 073,123 and 793)*, October 17, 1974.

- The former Building 4073 footprint. Asphalt and concrete from decontamination and decommissioning (D&D) activities were used as backfill at the site in 1975. While the concrete was decontaminated to levels presented above that were defined "as low as practicable" in 1975, these levels are not in compliance with the requirements of the Administrative Order on Consent (AOC). These samples should be taken at depths greater than 6 feet below ground surface.
- The ditch adjacent to the former dirt road. The ditch leads to 12th Street where the flow of drainage proceeds southeast along 12th Street to G Street and continues southwest to 17th Street.¹² . If radioactive materials were released the ground surface near Building 4073, residual contamination above background values may exist in the materials surrounding the ditch.

Building 4093

Plate 1 and Figure 2.2 provide a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4093 area. Building 4093 served as the AE-6 and L-85 reactor facility. Consequently, potential radioactive material migration via surface water flow or airborne release from this facility may affect the Building 4093 area. Previous characterization studies for the Building 4093 area were focused on delineating the extent of contamination to standards that were applicable at the time. Therefore, additional characterization is recommended for the Building 4093 area. This includes the following Building 4093 areas:

- The location of the sanitary leach field. Building 4093 was connected to a sanitary leach field that was removed in 1999.¹³ If radioactive materials were released into the septic system, residual contamination above background values may exist in the materials surrounding the former leach field. The sampling should include the former location of the 4-inch diameter clay pipe supplying the leach field at a depth of approximately 4 feet below ground surface.¹⁴ The leach field was reported to comprise 234 total linear feet, receiving flow from a 750-gallon septic tank associated with Building 4093. The leach field was located approximately 100 feet south of Building 4093.¹⁵
- The former location of the 4-inch vitrified clay pipe leading from the west corner of the building to the sanitary sewer. It is possible this line is part of the line that led to the former leach field. If radioactive materials were released into the septic system, residual contamination above background values may exist in the materials surrounding the former pipe.
- The drainage area on the northeast side of the building. Surface drainage extends from the northeast side of the building next to the retaining wall to southeast and then flows southwest toward the paved area southwest of the building.¹⁶ If radioactive materials

¹⁶ Atomics International, Santa Susana Facility Plot Plan, Drawing 303-GEN-C38, Sheet 4 of 14, June 4, 1964.

¹² Atomics International, Drawing 303-00C-C2, "Misc. Paving, Patching & Drainage Improvements – KEWB," Date illegible, circa 1969. HDMSE00457545.

¹³ Boeing Radiation Survey Reports, L-85 Facility Septic Tank Area, July and September 1999.

¹⁴ Rockwell International, *Area IV Radiological Characterization Survey, Final Report, Volume 1*, A4CM-ZR-0011, August 15, 1996.

¹⁵ MWH, DOE Leach fields (Area IV AOC) RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Draft, October 2003.

were released to surface at or around Building 4093, residual contamination above background values may exist in the soils surrounding the surface drainage areas within the Building 4093 area.

- The east side of the building where gamma radiation was found to be 1,000 milli roentgens per hour (mR/hr) on the east side of the building directly opposite the core. In order to determine the need for access restrictions in the area surrounding Building 4093, a radiation survey of the perimeter of the AE-6 reactor was conducted on August 13, 1970. The reactor was at a power level of 2 kW, and was operating with the shield doors on the east side open and a plastic Lucite rod, approximately 6 feet long, inserted in the one-inch diameter beam hole. Gamma radiation measured 1,000 mR/hr on the east side of the building directly opposite the core.¹⁷ The research team has been unable to determine if the building operated with the shield doors open frequently. If the shield doors were opened frequently during reactor operations, it is possible that residual contamination above background values may exist on the east side of the former building.
- The location of the former 750-gallon septic tank. If radioactive materials were released into the septic system, residual contamination above background values may exist in materials surrounding the former septic tank.

1.2.2 HSA-5B

Building 4010

Plate 1 and Figure 2.1 of the HSA-5B TM (found in Volume II of this HSA) provide a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4010 area. There were several radiological incidents at Building 4010 and documented evidence of radiological releases. Significant information is lacking regarding the excavation activities at Building 4010. In addition, previous characterization studies for the Building 4010 area were focused on delineating the extent of contamination to standards that were applicable at the time. Previous characterization studies for the Building 4010 area were focused on delineating the extent of contamination to standards that were applicable at the time. Previous characterization studies for the Building 4010 area were focused on delineating the extent of contamination to standards that were applicable at the time and not to the standard required by the December 2010 AOC. Therefore, additional characterization is recommended for the Building 4010 area. This includes the following Building 4010 areas and appurtenances:

- Former vault locations in the southern portion of the Building 4010 footprint. Leaks in the reactor and shield cooling lines may have left residual contamination in the area.
- Former radioactive gas holdup tank location exterior and northeast of the Building 4010 footprint. The known radioactive waste holdup tank may have left residual contamination in the area.
- Former septic tank location presumably located west of the Building 4010 footprint. If radioactive materials were released into the septic system, residual contamination may exist in the materials surrounding the former septic tank.
- Former leach field located west of the Building 4010 footprint. If radioactive materials were released into the septic system, residual contamination exist in the materials surrounding the former leach field.

¹⁷ Johnson, B.I., Internal Letter Re: Radiation Survey of the AE-6 Reactor, Building 093, August 13, 1970.

- Former pipewell sump located east of the Building 4010 footprint. Groundwater for the entire Building 4010 vault complex drained into a pipewell sump where it could be monitored. Leaks in the reactor and shield cooling lines may have left residual contamination in the area.
- Former UST located at north corner of the Building 4010 footprint. It is possible that this tank contained radioactive material and left residual contamination in the area.
- Sewer lines located north and west of the Building 4010 footprint. If radioactive materials were released into the sewer system, residual contamination may exist in the materials inside and surrounding the sewer lines.
- Drainage area east of Building 4010 depicted in aerial photograph from OS-2 in Subarea HSA-7 to former Building 4010 location. If radioactive materials were released from OS-2 and drained into the Building 4010 area, residual contamination may exist to the east of the building.
- Drainage pathways associated with the Building 4010 area and outside Area IV as proposed by the field sampling plan. Residual contamination may exist in drainages outside of Area IV.

Building 4012

Plate 1 and Figure 2.1 provide a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4012 area. Previous investigation found radiological contamination in Building 4012 and significant information is lacking regarding the excavation activities at Building 4012. In addition, previous characterization studies for the Building 4012 area were focused on delineating the extent of contamination to standards that were applicable at the time and not to the standard required by the December 2010 AOC. Therefore, additional characterization is recommended for the Building 4012 area. This includes the following Building 4012 areas and appurtenances:

- Former critical cell (Room 110) and fuel storage room (Room 109) in the northern Building 4012 footprint. Past contamination of these rooms may have left residual contamination in the area.
- Former radioactive waste holdup tank outside Room 104 on the southwest side of the Building 4012 footprint. The known radioactive waste holdup tank may have left residual contamination in the area.
- Sanitary sewer line located south of the Building 4012 footprint. If radioactive materials were released into the sewer system, residual contamination may exist in the materials inside and surrounding the sewer lines.
- Former OS-7 (open storage area) and possible WDA-6 (waste disposal area) identified on aerial photographs north of the Building 4012 footprint. If radioactive materials were stored or disposed in OS-7 or WDA-6, contamination could migrate and/or drain into the Building 4010 area, residual contamination may exist to the east of the building footprint.
- Drainage pathways associated with the Building 4012 area and outside Area IV as proposed by the field sampling plan. Residual contamination may exist in drainages outside of Area IV.

Building 4019

Plate 1 and Figure 2.1 provide a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4019 area. Previous investigation found radiological contamination in Building 4019 and characterization studies for the Building 4019 area were focused on delineating the extent of contamination to standards that were applicable at the time. Previous characterization studies for the Building 4019 area were focused on delineating the extent of contamination to standards that were applicable at the time and not to the standard required by the December 2010 AOC. Therefore, additional characterization is recommended for the Building 4019 area. This includes the following Building 4019 areas and appurtenances:

- Former test vault location in the central portion of Building 4019. Past use of the vault may have left residual contamination in the area.
- Former waste holdup tank and vault located under Room 107 at south end of Building 4019. The known radioactive waste holdup tank may have left residual contamination in the area.
- Drain and pump locations identified in the as-built plumbing plan of Building 4019. If radioactive materials were released into the building drains, residual contamination may be in the area.
- Sanitary sewer line south of Building 4019. If radioactive materials were released into the sewer system, residual contamination may exist in the materials inside and surrounding the sewer lines.
- Storm drainage south of the Building 4019. Storm water originating from Building 4019 discharges into this storm drain. Consequently, this storm drain may provide a pathway for the migration of radionuclides from Building 4019 and residual contamination may be in the area.
- Area north and west of Building 4019 where staining from unknown source was noted in aerial photograph.
- Area between Building 4013 footprint and Building 4019 where leakage from an unknown source was noted in aerial photographs.
- The area between Building 4019 and the Building 4059 footprint. Radionuclides originating from either building may have migrated to the area between buildings via surface water flow or airborne releases.
- Drainage pathways associated with the Building 4019 area and outside Area IV as proposed by the field sampling plan. Residual contamination may exist in drainages outside of Area IV.

1.2.3 HSA-5C

Building 4059

Plate 1 and Figure 2.1 of the HSA-5C TM (found in Volume IV of this HSA) provide a convenient reference for the following recommendations.

Previous characterization studies for the Building 4059 area were focused on delineating the extent of contamination to standards that were applicable at the time. Therefore, additional characterization is recommended for the Building 4059 area. This includes the following Building 4059 areas and appurtenances:

- The area at the north end of the site where possible open storage was identified in the 1965 aerial photograph. Radionuclides originating from Building 4059 may have migrated to this area via surface water flow or airborne releases.
- The storm drains located on the northwest and southern sides of the site. If radiological materials were released from Building 4059, they may have migrated to the storm drain network during precipitation events.
- The sanitary sewer lines located on the northern and southern sides of the site. If radioactive materials were released into the sanitary sewer system, residual contamination may exist in the materials surrounding the sewer lines.

Building 4100

Plate 1 and Figure 2.3 provide a convenient reference for the following recommendations.

Previous characterization studies for the Building 4100 area were focused on delineating the extent of contamination to standards that were applicable at the time. Therefore, additional characterization is recommended for the Building 4100 area. This includes the following Building 4100 areas and appurtenances:

- The drainage channel surrounding the site may provide a pathway for the migration of radionuclides originating from Building 4100.
- The sanitary sewer lines located on the eastern and southern sides of the site. If radioactive materials were released into the sanitary sewer system, residual contamination may exist in the materials surrounding the sewer lines.
- The septic tank area and associated leach field may contain residual radioactive contamination.
- The Building 4100 storage yard/debris field between Building 4100 and 24th Street has no documented remediation. If radioactive materials were released here, residual contamination may exist in this area.
- The Building 4100 trench may contain residual radioactive contamination because the depth of remediation and backfilling are not documented.
- The areas of the exterior waste storage tank for Building 4100 may contain residual radioactive contamination.

1.2.4 HSA-5D

Building 4020

Plate 1 and Figure 2.2 of the HSA05D TM (found in Volume V of this HSA) provide a convenient reference for the following recommendations.

Based on the available information, soil sampling is recommended in the Building 4020 area. There were numerous radiological incidents at Building 4020 and documented evidence of radiological releases. In addition, previous characterization studies for the Building 4020 area were focused on delineating the extent of contamination to standards that were applicable at the time. Additionally, characterization was not conducted to delineate the extent of contamination consistent with the DTSC/DOE December 2010 AOC. Therefore, additional characterization is recommended for the Building 4020 area. This includes the following Building 4020 areas and appurtenances:

- The former Building 4020 footprint is recommended for sampling to characterize the existing fill material and the underlying soil (>18 feet below ground surface). Specifically, sampling locations should be focused to areas with the greatest potential for release such as in the vicinity of former hold up tanks, sumps, and drain lines.
- The former location of the leach field and septic tanks are recommended for sampling.
- The western boundary of the Building 4020 footprint and the boundary of the paved areas to the west of the building are recommended for sampling. These areas were known to be contaminated as a result of the handling of casks and other storage containers that were transported into and out of Building 4020.
- The alignment of the former pipeline leading from the Building 4020 basement through the transfer tunnel to Building 4468 should be sampled for potential residual contamination. Like the Building 4020 footprint, the transfer tunnel was removed during demolition of the building and the area was excavated to a depth of between 10 and 18 feet. The area was subsequently backfilled.
- Aerial photographs indicate the presence of stains at the northwest corner of the Building 4020 area boundary. This area, if not disturbed during demolition activities, may show elevated levels of contamination.
- As a result of documented releases of radioactive materials outside of the building, the drainage channels along G, J, and 24th Streets are recommended for sampling. Surface water run-off from Building 4020 flowed either into the ditch on the south side of G Street or into the ditch on the south side of J Street.
- The former paved areas to the north of the former building are recommended for sampling. As was documented in incident report A0016, on May 31, 1962, a portable radioactive liquid holdup tank was being filled from the radioactive holdup tank inside Building 4020 when the portable tank overflowed and a maximum of 50 gallons of liquid was spilled. The spilled liquid flowed down slope to the road and then to a drainage ditch. A similar incident occurred on November 24, 1964, when a radioactive spill resulting from the overflow of a 500-gallon portable liquid holdup tank occurred in the north loading dock area of Building 4020. A maximum of 25 gallons of liquid was lost at the north loading dock area and resulted in contamination of the immediate area.

Building 4373

Plate 1 and Figure 2.2 provide a convenient reference for the following recommendations.

Based on the available information, soil sampling is recommended in the Building 4373 area. Building 4373 included a SNAP critical assembly (SCA) that had a pseudo spherical shape with a fixed hydrogen moderator, highly enriched U-235 fuel, and a beryllium and graphite reflector.¹⁸

There were radiological incidents at Building 4055 and documented evidence of radiological releases. Significant information is lacking regarding the excavation activities of the drainage lines leading to the Building 4055 liquid waste holdup system.

In addition, previous characterization studies for the Building 4373 area were focused on delineating the extent of contamination to standards that were applicable at the time. In additional, characterization was not conducted to delineate the extent of contamination consistent with the DTSC/DOE December 2010 AOC. Therefore, additional characterization is recommended for the Building 4373 area. This includes the following Building 4373 areas and appurtenances:

- Sampling is recommended in the drainage channels surrounding Building 4373. This includes drainage channels to the north and south of the building. A 1964 plot plan shows a drainage channel located at the northeast corner of the fence boundary that leads north along 22nd Street to the parking lot entrance, flows under the parking lot entrance through an 18-inch corrugated metal pipe, and continues to a catch basin located at the intersection of G Street and 22nd Street. The flow from the catch basin is directed through a 36-inch corrugated metal pipe under 22nd Street and into a natural drainage ditch that flows east-southeast toward Area III. Drainage from the southern portion of the building appears to have been directed to a 24-inch corrugated metal pipe near the southeast corner of the building, under 22nd Street, and eastward along J Street toward Area III.
- Sampling is also recommended at the former Building 4373 leach field located southeast of the building. Limited information regarding the abandonment of the leach field has been located.
- The former Building 4373 footprint is recommended for sampling, including the former location of the SCA.

The underground drainage lines of Building 4055 were located to the west of Building 4373 within the facility's fenced boundary. The sampling of these lines is recommended under Building 4055.

¹⁸ ETEC Document, GEN-ZR-0012, Radiological Survey of Buildings T373 and T375, August 8, 1988.

¹⁹ Atomics International, Drawing No. 303-GEN-C41, Sheet 7 of 14, Santa Susana Facility Plot Plan,

1.2.5 HSA-6

Building 4143

Plate 1 and Figure 2.1 of the HSA-6 TM (found in Volume VI of this HSA) provide a convenient reference for the following recommendations.

Previous characterization studies for the Building 4143 area were focused on delineating the extent of contamination to standards that were applicable at the time. Characterization was not conducted to delineate the extent of contamination consistent with the DTSC/DOE December 2010 AOC. Therefore, additional characterization is recommended for the Building 4143 area. This includes the following Building 4143 areas and appurtenances:

- The flat and low-lying areas surrounding Building 4143. Radionuclides originating from Building 4143 may have migrated to these areas via surface water flow or airborne releases.
- The northeast corner of Building 4143 where open storage was identified in aerial photographs and where spills occurred from sumps and underground vaults.
- The north side of Building 4143 where approximately 3,550 gallons of water were dumped from two radioactive liquid waste storage tanks in 1964, and another spill occurred in 1977.
- The area of the fuel cleaning cells (also known as wash cells) where an explosion caused damage to system components in June 1959.
- The north and east sides of Building 4143 where possible debris and stains were identified in aerial photographs.
- The former septic tank and leach field area that also serviced Buildings 4003 and 4163. Boeing excavated, removed, and survey these items in 2000, but it is not clear that this area was thoroughly investigated and decontaminated.
- The storm drain system located south of the site that connected to the SRE retention pond. The pond initially drained to the NBZ and Brandeis-Bardin Institute land, but was later connected through an overland pipe to a channel/ditch connecting to the Area II ponds.
- The drainage channel/ditch located north of the site that connected to the SRE retention pond. Accidental spills of contaminated water drained into this channel.
- The sanitary sewer line located east of the site. If radionuclides were released into the sanitary sewer system, residual contamination may exist in the materials surrounding the sewer lines.

1.2.6 HSA-7/3/NBZ

Building 4021

Plate 1 of the HSA-7/3/NBZ TM (found in Volume VII of this HSA) provides a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4021 area. There were several radiological incidents at Building 4021 and documented evidence of radiological releases. Previous characterization studies for the Building 4021 area were focused on delineating the extent of contamination to standards that were applicable at the time and not to the standard required by the December 2010 AOC. Therefore, additional characterization is recommended for the Building 4021 area. This includes the following Building 4021 areas and appurtenances:

- Under the abandoned in place Building 4021 septic tank located below grade north of the asphalt swale. Documented releases to the Radioactive Materials Handling Facility (RMHF) leach field indicate the septic tank may have left residual contamination in the area.
- Under the sumps and floor drains inside Building 4021. The sumps and floor drains carried contaminated waste from the Building 4021 decontamination and packaging rooms. Residual radioactive contamination is likely in this area.
- Under the Building 4021 sump, sump tank (UT-16) and former radioactive liquid storage tank (T-1) located outside and west of the building. These features are considered to be radiologically contaminated, having received contaminated waste from the Building 4021 floor drains and Building 4022 vaults. This area is also the location of a radioactive liquid spill (A0070). Residual radioactive contamination is likely in this area.
- Under the electrical substation sump and drainage discharge point located on the western side of Building 4021. Although the sump and drainage was designed for stormwater, this water could contain airborne contamination and the discharge point may present an area where water can pool. Residual radioactive contamination could be present.
- Under the subsurface pipeline that connects the sump tanks in Building 4021 with the vaults in Building 4022 vaults with the sump tanks in Building 4021. This pipeline carried radioactive liquids. Leaks in the pipeline could have contributed to contamination and the pipeline itself could have provided a pathway for contaminant migration. Residual radioactive contamination is likely in this area.
- Filter/blower area between Building 4021 and Building 4022. This area contained the high-efficiency particulate air (HEPA) filter exhaust system, trenches to drain water from the area, and a below-grade pipeline to the RMHF northern slope. The trenches and pipeline may have also provided pathways for contaminant migration. Residual radioactive contamination is associated with some of these features and may be present in this area.
- Safety shower located on the north central side of Building 4021. The shower could have provided a drainage area for residual contamination.
- Pad and asphalt behind the decontamination room where a radiological incident (A0448) occurred and contaminated the area. Residual contamination may be present.
- Lower parking lot area where contaminated blocks were found according to a radiological incident report (A0680). The contamination was removed at the time of the incident, but residual contamination may still exist.
- Paved area from the former 5,000-gallon radioactive liquid waste storage tank (T-1) to a point 40 yards south and west of the tank and ranging between 2 and 10 feet where a spill of 40 to 50 gallons of contaminated water occurred according to a radiological incident

report (A0070). Contamination from the incident was fixed in place and residual contamination may still exist.

- Possible stained area west of Building 4021 depicted in 1967 aerial photograph. If radioactive materials were spilled in this stained area, residual contamination may be present.
- Aboveground pipeline depicted in aerial photographs from 1967 through 1980 that extends from north end of Building 4021 to the northern perimeter of RMHF site. This pipeline could have leaked radioactively contaminated liquid onto the asphalt below. Residual radioactive material may be present on the ground below the pipeline.
- Area of dark-toned material west of Building 4021 identified in a 1980 aerial photograph. If radioactive materials were spilled in this dark-toned material, residual contamination may be present.
- Under the sewer lines located north and west of Building 4021. If radioactive materials were released into the sewer system, residual contamination may exist in the materials surrounding the sewer lines.
- Surface drainage areas around the Building 4021 area. Radiological incident A0080 noted that contaminated liquid flowed from Building 4021 to the RMHF 4614 Holdup Pond. Any releases of radioactive materials would have followed drainage pathways from the building and could leave residual contamination.

Building 4028

Plate 1 provides a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Building 4028 area. There were several radiological incidents at Building 4028 and documented evidence of radiological releases. Previous characterization studies for the Building 4028 area were focused on delineating the extent of contamination to standards that were applicable at the time and not to the standard required by the December 2010 AOC. Therefore, additional characterization is recommended for the Building 4028 area. This includes the following Building 4028 areas and appurtenances:

- Former reactor, test vault, and fuel storage locations in the west portion of the Building 4028 site. Leaks in the reactor and shield cooling lines may have left residual contamination in the area.
- Former radioactive sink for liquid waste disposal in the east portion of the Building 4028 footprint. The known radioactive sink may have left residual contamination in the area.
- Former holding reservoir [RMHF 4614 Holdup Pond] located at the edge of the asphalt driveway leading to the Building 4028 footprint that accumulated cooling tower water and rainwater. If radioactive materials were released or accumulated in the holding reservoir, residual contamination may be present.
- Former trench outside the reactor room that contained the water purification system and a primary side circulating pump as part of the cooling tower system. The trench could provide a drainage area for surface water and could collect any residual contamination.
- Former sump pump located at the northwest corner of the Building 4028 test vault accessway [RMHF 4614 Holdup Pond pump] that pumped water from the holding

reservoir to Rocketdyne. If radioactive materials were released or accumulated in water, residual contamination may be present.

- Former spill areas on the bank above the former Building 4028 area noted in a 1975 letter. These known areas of contamination were thought to have followed drainage pathways down the bank. Residual contamination may be present.
- Open storage area (OS-13) west of Building 4028 depicted in a 1980 aerial photograph. Possible stains were noted in this area. If radioactive materials were released from OS-13, residual contamination may exist.
- Drainage areas north and south of Building 4028. Aerial photographs and other documents note stormwater drainage pathways on the north and south sides of the building. Residual contamination may exist in these drainages.

1.2.7 HSA-8

Building 4009

Plate 1 and Figure 2.2 of the HSA-8 TM (found on Volume VIII of this HSA) provide a convenient reference for the following recommendations.

Information is lacking regarding the excavation activities for the leach field, hold-up tanks, and septic tanks at Building 4009, particularly in late 1989 and early 1990. The characterization studies for the Building 4009 area were focused on delineating the extent of contamination to previous standards. Characterization was not conducted to delineate the extent of contamination consistent with the DTSC/DOE December 2010 AOC. Therefore, additional characterization is recommended for the Building 4009 area. This includes the following Building 4009 areas and appurtenances:

- The flat and low-lying areas surrounding Building 4009, particularly on the north, south and west sides where open storage was identified in aerial photographs. Radionuclides originating from Building 4009 may have migrated to these areas via surface water flow or airborne releases.
- The waste hold-up tank, pit, and septic tank located northwest of the OMR, as shown in Figure 2.2.1d. It is unclear whether this area was thoroughly investigated and decontaminated in 2002.
- The waste hold-up tank, pit, and septic tank located northeast of the SGR, as shown in Figure 2.2.1d. It is unclear whether this area was thoroughly investigated and decontaminated in late 1989 and early 1990.
- The fuel oil tank located on the southeast side of the OMR, as shown in Figure 2.2.1d. It is unclear whether this area was thoroughly investigated and decontaminated in 1998.
- Within and downgradient of the former 6-line 300-linear-foot leach field area and approximately 50-foot drain line located northwest of Building 4009. It is unclear whether this area was thoroughly investigated and decontaminated.
- The liquid collection area identified in the 1980 aerial photograph. A drainage pathway directs liquid north through a vegetated area. This pathway then appears to be blocked by rock outcrops, resulting in a liquid collection area.

- The storm drain located west of the site that extends onto the NBZ and Brandeis-Bardin Institute land. It is unclear whether this storm drain was thoroughly investigated and decontaminated.
- All surface water drainage pathways including the storm water culvert located southeast of Building 4009, which carries water past Building 4100. It is unclear whether these drainage pathways were thoroughly investigated and decontaminated.
- The main sanitary sewer lines located north of Building 4009. If radionuclides were released into the sanitary sewer system, residual contamination may exist in the materials surrounding the sewer lines.

Building 4886

Plate 1 and Figure 2.2 provide a convenient reference for the following recommendations.

Extensive soil sampling is recommended in the Site 4886 area. For many years this was a radiological disposal area, there were several radiological incidents at Site 4886, and documented evidence of radiological releases. In addition, previous characterization studies for the site 4886 area were focused on delineating the extent of contamination to standards that were applicable at the time. Characterization efforts likely did not achieve the requirements of the DTSC/DOE December 2010 AOC. Therefore, additional characterization is recommended for the Site 4886 area. This includes the following Site 4886 areas and appurtenances:

- The flat land and low lying areas on Site 4886. Radionuclides originating from items of radiologically contaminated equipment disposed of at the site may have been deposited on soil via explosion, wind, and precipitation events. Rockwell reported that material was dispersed onto surrounding land by explosions that extended to Building 4009, so the radius of impact was about 600 feet. The gamma-scan results may prove helpful for selecting soil sampling locations.
- The locations of the former western, lower, and upper ponds and the concrete-lined pit that were notable features of Site 4886.
- The location of the former barrel open storage area in the southwest corner of the site that was identified in the 1978 and 1980 aerial photographs.
- The land on the far west side of the site between two rock ridges. This may have been a dumping area that has not been fully characterized.
- The drainage channels located on the west and south sides of the site that transport surface water northward to the NBZ. If radionuclides were released at the site, they may have migrated to the drainage channels during precipitation events.
- The drainage channels that extend into and traverse the NBZ. If radionuclides were released at the site, they may have migrated outside the SSFL along these drainage channels during precipitation events.

1.3 Radionuclide List to be Used in Soil and Groundwater Sampling

From a review of historical documents and radioactive material licenses issued for the SSFL, all of the radionuclides selected for radiochemical analysis of soil samples are likely to have been used or generated on the SSFL. Table 1.3, below, presents a summary of potential radiological contaminants of concern for each subarea of the Area IV Study area. Certain radionuclides mentioned in source documents, and thus included in Table 1.3, will not be analyzed. These have undergone radioactive decay in excess of 10 half-lives, such that they could no longer be present. These radionuclides include: Na-22, Fe-55, Sb-125, Cs-134, Ce-144, and Po-210. The September 23, 2010, Stakeholder Technical Meeting Action Items Memorandum describes the radionuclides contained in soil analytical suites, the sample analytical approach, and provides explanations for deleting certain radionuclides from analysis.

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4005	Uranium Carbide Fuel Pilot Plant	Demolished	Potential radioactive contaminants include natural and enriched uranium (U-238, U-234, U-235), activation products (iron-59 (Fe-59), cobalt-60 (Co-60)), isotopes of thorium (Th- 231, Th-234), carbon-14 (C-14), manganese- 54 (Mn-54), sulfur-35 (S-35), phosphorous-32 (P-32).	1
4023	Liquid Metals Component Test Building	Demolished	Potential radioactive contaminants include natural and enriched uranium (U-234, U-238 and U-235), isotopes of thorium (Th-228, TH- 232), isotopes of plutonium (Pu-238, Pu-239, Pu-240, Pu-241, Pu-242), Ne-237, Am-241, fission products (Cs-134, Cs-137, Sr-90), and activation products (Co-60, Fe-55, Eu-152, Eu-154, Ni-59, Ni-63, Ta-182, Mn-54).	1
4024	SNAP Environmental Test Facility	Partially Standing	Potential radioactive contaminants include natural and enriched uranium (U-238 and U- 235), isotopes of thorium (Th-232), isotopes of plutonium (Pu-238, Pu-239, Pu-240, Pu- 241, Pu-242), Am-241, fission products (Cs- 137, Sr-90), and activation products (Co-60, H-3, Fe-55, Eu-152, Eu-154, Ni-59, Ni-63, Mn-54), K-40, Na-22.	1
4027	SNAP Engineering Development Laboratory	Demolished	Radionuclides of concern include all radionuclides that are included in the background study plus any additional radionuclides identified during the HSA.	2
4029	Radiation Measurement Facility	Standing	Potential radioactive contaminants include fission products (Cs-137) and activation products (Co-60), Ra-226	1
4030/ 4035	AE-6 Counting Room and Workshop	Demolished	Potential radioactive contaminants include H- 3.	1
4032	Space Environmental Test Facility	Demolished	Potential radioactive contaminants include activation product Co-60.	2
4036	Non-Nuclear Office Building	Demolished	None specifically identified; however, direct radiation and skyshine from RMHF may affect ambient radiation conditions in the area.	1
4042	SNAP Shield Casting Facility	Demolished	Potential radioactive contaminants include natural and enriched uranium (U-238 and U- 235).	1
4046	Material Office Annex	Demolished	None specifically identified.	2
4048	Plant Development Unit Instrumentation Building	Demolished	None specifically identified.	1
4049	Hydraulic Test Control Center	Demolished	Potential radioactive contaminants include activation products (Co-60, Mn-54, Ni-59, Ni- 63, Fe-55, Fe-59), C-14, S-35, P-32.	1

Table 1.3aSummary of Subarea HSA-5A SitesPotential Radiological Contaminants of Concern

	Table 1.3a (continued)								
S	Summary of Subarea HSA-5A Sites								
Potenti	Potential Radiological Contaminants of Concern								
J J J J J J J J J J J J J J J J J J J									
	0		D						

Site		Current	Potential Radiological	MARSSIM
No.	Use(s)	Status	Contaminants of Concern	Class
4073	Kinetic Experiment Water	Demolished	Potential radioactive contaminants include	1
	Boiler Reactor		natural and enriched uranium (U-238 and U-	
			235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4074	Storage and Film	Demolished	Potential radioactive contaminants include	1
	Processing Building		natural and enriched uranium (U-238 and U-	
			235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4083/	Control Building	Demolished	None specifically identified.	1
4103	C		1 5	
4093	AE-6 Reactor Building	Demolished	Potential radioactive contaminants include	1
.070			natural and enriched uranium (U-238 and U-	-
			235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4123	KEWB Waste Storage	Demolished	Potential radioactive contaminants include	1
4123	Building	Demonstica	natural and enriched uranium (U-238 and U-	1
	Building		235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4185	I Julius on us	Demolished		1
4185	Unknown	Demolished	None specifically identified.	1
4453	Fuel Handling Building	Demolished	Potential radioactive contaminants include	1
			natural and enriched uranium (U-238 and U-	
			235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4501	Parking Lot	Vegetated	None specifically identified.	2
4536	Parking Lot	Evidence remains	None specifically identified.	2
4633	Reactor Cooling Water Pad	Demolished	None specifically identified.	1
4641	Shipping and Receiving	Demolished	Regulated radioactive material handled in the	2
			building; however, a complete list of materials	
			handled in Building 4641 could not be located.	
			As a result, the potential radioactive	
			contaminants include natural and enriched	
			uranium (U-238, U-234, U-235), isotopes of	
			plutonium (Pu-238, Pu-239, Pu-240, Pu-241),	
			Am-241, fission products (primarily Cs-137,	
			Sr-90), and activation products (H-3, Fe-55,	
			Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-	
			154, Eu-155, Pm-147, Ta-182).	
4643	KEWB Exhaust Building	Demolished	Potential radioactive contaminants include	1
			natural and enriched uranium (U-238 and U-	-
			235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4793	KEWB Heating and Air	Demolished	Potential radioactive contaminants include	1
7175	Conditioning	Demonstied	natural and enriched uranium (U-238 and U-	1
	Conditioning		235), fission products (Cs-137, Sr-90), and	
			activation products (Co-60, Eu-152, Eu-154).	
4027	Nitrogon Storege Teul-	Domolishad		1
4927	Nitrogen Storage Tank	Demolished	None specifically identified.	1

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4006	Sodium Laboratory	Standing	Potential radioactive contaminants include: Cs-137, H-3, U-234, U- 235, U-238, and UO ₂ . Radionuclides associated with potential SNAP drainage include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4007	Sodium Storage Building	Demolished	Radionuclides associated with drainage from Buildings 4005, 4006, 4010, 4012, and 4024 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Mn-54, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U-234, U- 235, U-238, and UO ₂ .	2
4008	Flammable Material Storage Building	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2
4010	Systems for Nuclear Auxiliary Power (SNAP) Experimental Reactor (SER), SNAP 8 Experimental Reactor (S8ER)	Demolished	Potential radioactive contaminants include: Sb-125, Am-241, Be-10, Ca-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U-234, U- 235, and U-238.	1
4011	Administration and Services Building, Development Support Shop, Manufacturing Support Shop, Machine Shop, Radiation Instrument Calibration Laboratory	Standing	Potential radioactive contaminants include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Pb-210, K-40, Pu-238, Pu-239, Pu-240, Pu-241, Ra-226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	1
4012	SNAP Critical Test Facility, Heavy Metal Reflected Fast Spectrum Reactor (HMRFSR), Energy Technology Engineering Center (ETEC) X-Ray Facility/Storage	Demolished	Potential radioactive contaminants include: Sb-125, Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U-235, and U-238.	1

Table 1.3bSummary of Subarea HSA-5B SitesPotential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4013	SNAP Non-Nuclear Component Assembly and Performance Test Building, ETEC Thermal Transient Test Facility	Demolished	Radionuclides associated with nearby Buildings 4012 and 4019 include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U- 234, U-235, and U-238.	1
4019	SNAP Flight System Nuclear Qualification Test Building, ETEC Construction Staging and Computer Facility	Standing	Potential radioactive contaminants include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U- 234, U-235, and U-238.	1
4025	Remote Handling Mock-Up Building, ETEC Instrumentation and Inventory Building	Demolished	A potential radioactive contaminant is Co-60. Radionuclides associated with potential drainage from Building 4075 include: isotopes of thorium, plutonium, and uranium, and mixed fission products. Radionuclides associated with nearby Building 4024 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U-234, U- 235, and U-238.	1
4026	Large Component Test Loop (LCTL) Control Building, Small Component Test Loop (SCTL) Control Building	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4171	X-Ray Building	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Pb-210, K-40, Pu-238, Pu-239, Pu-240, Pu-241, Ra-226, Sr-90, Tc-99, Th-230, Th-232, H- 3, U-234, U-235, and U-238.	1
4172	X-Ray Building	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Pb-210, K-40, Pu-238, Pu-239, Pu-240, Pu-241, Ra-226, Sr-90, Tc-99, Th-230, Th-232, H- 3, U-234, U-235, and U-238.	2

Table 1.3b (continued)Summary of Subarea HSA-5B SitesPotential Radiological Contaminants of Concern

Table 1.3b (continued)
Summary of Subarea HSA-5B Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4226	SCTL Motor Generator Building	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4228	Sodium Component Test Installation (SCTI) Power Pak Building, SCTI Co- Generation Plant	Demolished	Radionuclides associated with Building 4012 include: Sb-125, Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U- 235, and U-238.	1
4293	Time Clock	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4310	Portable Change Room	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	1 for original location near SNAP building / 2 for final location near SCTL building
4334	Kalina Cycle Demonstration Power Plant Control Room	Demolished	Radionuclides associated with potential drainage from Building 4019 include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U-235, and U-238.	2
4335	Kalina Cycle Demonstration Power Plant Turbine Generator Room	Demolished	Radionuclides associated with potential drainage from Building 4019 include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U-235, and U-238.	2
4354	SCTI Control Element Test Structure	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2

Table 1.3b (continued)
Summary of Subarea HSA-5B Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4355	SCTI Control Center	Demolished	Potential radioactive contaminants include Co-60 and Cs-137. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	1
4356	SCTI High Bay	Demolished	A potential radioactive contaminant is Cs-137. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	1
4357	Heat Transfer Loop Control Building, Liquid Metal Engineering Center (LMEC) and ETEC Pump Bearing Test Facility Control Building	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4358	Chemical Storage Building Supporting SCTL, SCTI, and Kalina	Demolished	Radionuclides associated with potential drainage from Buildings 4010, 4012, and 4019 include: Sb- 125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4359	SCTI Atomizing Air Building	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4360	SCTI Chemical Storage Building	Demolished	Radionuclides associated with potential drainage from Building 4019 include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U-235, and U-238.	2
4361	SCTI Hazardous Material Storage Building	Demolished	Radionuclides associated with potential drainage from Building 4019 include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U-235, and U-238.	2

Table 1.3b (continued)
Summary of Subarea HSA-5B Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4362	SCTI Water Sampling Building	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4392	SCTI Electrical Equipment Building	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4402	MHD Experiment Building	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4457	SCTI Pump Bearing Test Structure	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4478	SCTI Support Trailer	Demolished	Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U- 234, U-235, and U-238.	2
4500	Gas Bottle Dock	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2

Table 1.3b (continued)Summary of Subarea HSA-5B SitesPotential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4502	Parking Lot	Demolished	Radionuclides associated with potential drainage from Building 4019 include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, U-234, U-235, and U-238.	2
4506	Parking Lot	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4521	Parking Lot	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2
4606	Sodium Lab Instrument Building A, MHD Support Building, Hydrogen Recombiner Test Building	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4607	Sodium Lab Instrument Building B	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2

Table 1.3b (continued)
Summary of Subarea HSA-5B Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4611	Paint Spray Booth Canopy	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2
4612	Maintenance Building	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2
4615	Combustion Test Facility	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010, 4012, and 4024 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U-234, U-235, and U- 238.	2
4639	Industrial Engineering Office Trailer Complex	Demolished/ May Not Have Been Built	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2
4704	Electrical Substation	Standing	Radionuclides associated with drainage from Buildings 4005, 4006, 4010, 4012, and 4024 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Mn-54, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H-3, U-234, U- 235, U-238, and UO ₂ .	2

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4714	Power Pak Interconnecting Facility	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
4735	Fuel Tank	Demolished	Radionuclides associated with nearby Building 4011 include: Am-241, Cs-137, Co-60, Eu-152, Eu-154, Ir-192, Pb-210, K-40, Pu- 238, Pu-239, Pu-240, Pu-241, Ra- 226, Sr-90, Tc-99, Th-230, Th- 232, H-3, U-234, U-235, and U- 238.	2
4826	Large Component Test Loop Facility	Demolished	Radionuclides associated with nearby Building 4006 include: Cs- 137, H-3, U-234, U-235, and U- 238. Radionuclides associated with potential drainage from Buildings 4010 and 4012 include: Sb-125, Am-241, Cs-134, Cs-137, Co-60, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, H- 3, U-234, U-235, and U-238.	2
17 th Street Drainag e	Natural Drainage Area Bermed to Create Holding Pond	Dry, Overgrown	Potential radioactive contaminants include: Am-241, Cs-137, Pu-238, Pu-239, Pu-240, Sr-90, Th-228, Th-230, Th-232, U-234, U-235, U-236, and U-238.	1

Table 1.3b (continued)Summary of Subarea HSA-5B SitesPotential Radiological Contaminants of Concern

Table 1.3c
Summary of Subarea HSA-5C Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4015	Construction Material Storage	Standing	Radionuclides associated with SNAP criticality test Building 4373. Radionuclides associated with Building 4373 will be discussed in TM HSA-5D.	1
4038	SNAP Office Building	Standing	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4039	SNAP Administration Building, LMEC Office Building, Health Physics Counting Laboratory	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4057	Launch Handling and Mobile Equipment Development Building, LMEC Laboratory	Boeing Records Room	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4059	SNAP 8 Development Reactor, Large leak Test Rig, Ground Prototype Test Facility	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4062	ETEC Instrumentation Operations Building, Storage Facility for Instrument Calibration	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4065	SNAP Thermoelectric Converter Test Building, LMEC Chemical Laboratory	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4066	Instrumentation Repair and Calibration Building, Instrument Laboratory	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4100	AETR, FCEL, Radiation Safety and Computed Tomography	Standing	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	1
4383	Instrumentation Building, LMEC Assembly and Test Building	Demolished	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	2

Table 1.3c (continued)Summary of Subarea HSA-5C SitesPotential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	Preliminary MARSSIM Class
4459	URS Building, ETEC Storage Building	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4461	SPTF Motor Generator Building	Demolished	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	1
4462	SPTF Building	Awaiting Demolition	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	1
4463	Sodium Cleaning and Handling Facility Building	Awaiting Demolition	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	1
4482	Government Project Office	Transferred Off Site	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	2
4483	LMEC Office Trailer	Transferred Off Site	Radiological contamination is not anticipated in this area.	3
4484	Rest Room Trailer	Transferred Off Site	Radiological contamination is not anticipated in this area.	3
4485	LMEC Office Trailer	Transferred Off Site	Radiological contamination is not anticipated in this area.	3
4486	LMEC Office Trailer	Transferred Off Site	Radiological contamination is not anticipated in this area.	3
4487	ETEC Engineering Building, SHEA Office	Demolished	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	2
4538	Parking Lot for Buildings 4482 through 4486	Vegetated Area	Radiological contamination is not anticipated in this area.	3
4626	LMEC Equipment Storage Building, ETEC Inventory Storage Building, SNAP Storage Building	Demolished	U-238, U-234, U-235, Pu-238, Pu-239, Pu-240, Pu-241, Am-241, Cs-137, Sr- 90, H-3, Fe-55, Co-58, Co-60, Ni-63, Ba-133, Eu-152, Eu-154, Eu-155, Pm- 147, Ta-182.	1
4662	SPTF Small Parts Cleaning Pad	Demolished	U-233, U-234, U-235, U-236, U-238, Th-232, Np-237, Pu-238, Pu-239, Pu- 240, Pu-241, Th-228, Ra-228, Th-230, Ra-226, Pb-210, Pa-231, Ac-227.	1

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4020	Hot Laboratory; Component Development Hot Cell	Demolished	U-235, U-238, Pu-238, Pu-239+240, Th-232, Th-234, Th-228, Ac-228, Ra-226, Pb-214, Bi-214, Pb-212, Bi-212, and Tl-208. Also, H-3, Sr-90, Co-60, Cs-137, Eu-152, Am-241, and Am-243. Na-24 has a 15 hour half-life and Co-57 has a 272 d half-life, hence these contaminants have decayed and will not be analyzed.	1
4055	Nuclear Material Development Laboratory	Standing	U-235, U-238, Pu-238, Pu-239+240, Th-232, Th-234, Th-228, Ac-228, Ra-226, Pb-214, Bi-214, Pb-212, Bi-212, and Tl-208. Also, H-3, Sr-90, Co-60, Cs-137, Eu-152, Am-241, and Am-243.	1
4173/ 4865	Gammagraph Building	Demolished	Co-60, U-234, U-235, and U-238	2
4353	Organics Reactor Development Building; Research and Development Laboratory Building	Demolished	Co-60, Mn-54, Ni-59, Ni-63, and Fe-55. Mn-54 and Fe-55 have short half-lives and will not be analyzed.	1
4363	Mechanical Component Development and Counting Building; Research and Development Laboratory Building	Demolished	U-235, U-238, Ra-226, Pb-214, Bi-214, Pb- 212, Bi-212, Tl-208, H-3, Sr-90, Cs-137, Co- 60, Eu-152	1
4373	SNAP Critical Facility	Demolished	U-235, U-238, Pu-238, Pu-239+240, Th-232, Th-234, Th-228, Ac-228, Ra-226, Pb-214, Bi-214, Pb-212, Bi-212, and Tl-208. Also, H-3, Sr-90, Co-60, Cs-137, Eu-152, Am-241, and Am-243.	1
4374	Test Loop Enclosure	Demolished	U-235, U-238, Pu-238, Pu-239+240, Th-232, Th-234, Th-228, Ac-228, Ra-226, Pb-214, Bi-214, Pb-212, Bi-212, and Tl-208. Also, H-3, Sr-90, Co-60, Cs-137, Eu-152, Am-241, and Am-243.	1
4375	Control Shelter Building	Demolished	None identified.	2
4468	Holdup Tank	Demolished	U-235, U-238, Pu-238, Pu-239+240, Th-232, Th-234, Th-228, Ac-228, Ra-226, Pb-214, Bi-214, Pb-212, Bi-212, and Tl-208. Also, H-3, Sr-90, Co-60, Cs-137, Eu-152, Am-241, and Am-243.	1
4473	Hydraulic Test Instrumentation Building	Demolished	None identified.	3
4509	Parking Lot	Demolished		2

Table 1.3d Summary of Subarea HSA-5D Sites Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4520	Parking Lot	Demolished	U-235, U-238, Pu-238, Pu-239+240, Th-232, Th-234, Th-228, Ac-228, Ra-226, Pb-214, Bi-214, Pb-212, Bi-212, and Tl-208. Also, H-3, Sr-90, Co-60, Cs-137, Eu-152, Am-241, and Am-243.	1
4553	Parking Lot	Demolished	None identified.	3
4575	Parking Lot	Demolished	None identified.	3
4701	Water Tank	Demolished	None identified	3
4702	Water Tank	Demolished	None identified	3
4854	Radiation Fuel Gauge Test Structure	Demolished	None identified.	2
4863	Hydraulic Test Loop	Demolished	None identified.	3
4873	Hydraulic Test Laboratory; Fuel Rod Test Tower and Pad	Demolished	None identified.	2
4874	Control Rod Test Tower and Pad	Demolished	None identified.	2
4875	Pad and Creep Loop Tower	Demolished	None identified.	2

Table 1.3d (continued) Summary of Subarea HSA-5D Sites Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4003	Sodium Reactor Experiment (SRE) Support Building, Hot Cave	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Th-228, Th-232, Th-234, H-3, C- 14, Ni-59, Ni-63, Co-60, Sr-90, I-129, Cs- 137, Eu-152, Ra-226, Ac-228, and Am-241. Radionuclides in prior reports, which will not be analyzed due to decay include Na-22, Sb-125, Cs-134, and Ce-144.	1
4014	Sodium Storage Building	Demolished	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Th-228, Th-232, Ra-226, Cs-137, Sr-90, H-3, Co-60, Ni-59, Ni-63, Eu-152, Eu-154 and Am-241. Radionuclides in prior reports, which will not be analyzed due to decay include: Na- 22, Fe-55, Sb-125, Cs-134, and Ce-144.	2
4040	Contaminated Medical/ Storage Facility	Demolished	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-228, Th-232, Ra-226, Cs-137, Sr-90, H-3, Co-60, Ni-59, Ni-63, Eu-152, and Eu-154.	2
4041	SRE Component Storage, Energy Technology Engineering Center (ETEC) Equipment Storage Building	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4053	Fire Department Service Building	Demolished	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-232, Sr-90, H-3, Co-60, Eu-152, and Eu-154.	2
4063	Electronics Shop, Maintenance Service Building	Demolished	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-232, Np- 237, Cs-137, Sr-90, H-3, Co-60, Ni-63, Ba- 133, Eu-152, and Eu-154.	2
4064	Fuel Element Storage Facility	Demolished	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-232, Np- 237, Cs-137, Sr-90, H-3, Co-60, Ba-133, Eu-152, and Eu-154.	1
4114	Decontamination Trailer	Demolished	U-238, U-234, U-235, U-236, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	2
4143	SRE Reactor Building, ETEC Component Storage	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Np-237, Th-232, H-3, Co-60, Sr-90, Tc-99, I-129, and Cs-137.	1
4153	SRE Sodium Service Building	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4163	SRE Support, Component Equipment Repair Facility (CERF)	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4183	Fire Pump Building	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1

Table 1.3eSummary of Subarea HSA-6 SitesPotential Radiological Contaminants of Concern

Table 1.3e (continued)
Summary of Subarea HSA-6 Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4184	SRE Battery Room, Diesel Generator Canopy	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4185	Steam Generator Control Building	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4273	Radioactive Laundry	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4283	Radioactive Laundry	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4320	Fuel Oil Control/Pump Building	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4505	Storage Area/Concrete Pad	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4511	Parking Lot at Main Gate	Removed	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	2
4513	Parking Lot between Buildings 4064 and 4030	Removed	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-232, Np- 237, Cs-137, Sr-90, H-3, Co-60, Ba-133, Eu-152, and Eu-154.	2
4540	Parking Lot for Building 4040	Part of G Street	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-228, Th-232, Ra-226, Cs-137, Sr-90, H-3, Co-60, Ni-59, Ni-63, Eu-152, and Eu-154.	2
4583- Old	Old Energy Systems Group (ESG) Salvage Yard (1962- 1975)	Removed	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4583- New	New Salvage Yard (1977- 1983)	Demolished	U-238, U-233, U-234, U-235, U-236, Pu- 238, Pu-239+240, Am-241, Th-228, Th-232, Ra-226, Cs-137, Sr-90, H-3, Co-60, Ni-59, Ni-63, Eu-152, and Eu-154.	1
4653	Interim Radioactive Waste Vault	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4684	Steam Generator Pad	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4686	Temporary Hot Waste Storage	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4689	Interim Storage Facility for Contaminated Items from the SRE Complex	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1

Table 1.3e (continued)
Summary of Subarea HSA-6 Sites
Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4695	SRE Cold Trap Vault	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4703	Water Tower	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	2
4714	Research and Development Shop Work Area associated with Building 4163	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu-239+240, Am-241, Th-232, H-3, Co-60, Sr-90, and Cs-137.	1
4723	Steam/Sodium Cleaning Pad associated with the SRE	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4724	Hot Oil Sodium Cleaning Facility for the SRE	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4731	Fuel Oil Storage Tank	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4732	Fuel Oil Storage Tank	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4733	Sodium Cleaning Pad for the SRE Complex	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4743	Tetralin Heat Exchanger for the SRE	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4753	SRE Primary Fill Tank Vault	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1
4773	SRE Waste Water Retention Pond and Dam	Demolished	U-238, U-234, U-235, U-236, Pu-238, Pu- 239+240, Am-241, Th-232, H-3, Co-60, Sr- 90, and Cs-137.	1

Site	Use(s)	Current	Potential Radiological	MARSSIM
No.		Status	Contaminants of Concern	Class
4021	Radioactive Material Disposal Facility (RMDF) Waste Decontamination and Packaging ; Radioactive Material Handling Facility (RMHF) Waste Decontamination and Packaging	Standing	Am-241, Co-60, Cs-137, Eu-152, Eu-154, H-3, K-40, Ni-59, Ni-63, Pm-147, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Sr-90, Th-228, Th- 232, U-234, U-235, and U-238.	1
4022	RMDF Vault Storage; RMHF Radioactive Vault Storage	Standing	Am-241, Co-60, Cs-137, Eu-152, Eu-154, H-3, K-40, Ni-59, Ni-63, Pm-147, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Sr-90, Th-228, Th- 232, U-234, U-235, and U-238.	1
4028	Shield Test Irradiation Reactor (STIR) Facility; Liquid Metal Fast Breeder Reactor (LMFBR) Fuel Safety Building	Demolished	Am-241, Cs-137, Co-60, Eu-152, Eu-154, H-3, Pu-238, Pu-239, Pu- 240, Pu-241, Sr-90, U-234, U-235, and U-238.	1
4034	RMDF Office Building; RMHF Office Building	Standing	Am-241, Co-60, Cs-137, Eu-152, Eu-154, H-3, K-40, Ni-59, Ni-63, Pm-147, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Sr-90, Th-228, Th- 232, U-234, U-235, and U-238.	1
4044	RMDF Clean Shop; RMDF Support Lab; RMDH Support Lab	Standing	Am-241, Bi-210, Co-60, Cs-137, Eu-152, Eu-154, H-3, K-40, Ni-59, Ni-63, Pb-210, Pm-147, Pu-238, Pu- 239, Pu-240, Pu-241, Pu-242, Sr-90, Tc-99, Th-228, Th-232, U-234, U- 235, and U-238.	1
4075	RMDF Contaminated Equipment Storage Building	Standing	Uranium, plutonium, thorium, mixed fission products. Isotopes of cobalt and europium.	1
4133	Hazardous Waste Treatment Facility; Hazardous Waste Management Facility	Standing	None identified.	1
4563	Building 4633 Storage Yard; Covered Storage Area Adjacent to Building 4075	Standing	Uranium, plutonium, thorium, and mixed fission products.	1
4614	RMDF Drainage Sump; RMHF Drainage Sump; RMHF Holdup Pond	Standing	Am-241, Co-60, Cs-134, Cs-137, Eu-152, Eu-154, Pu-238, Pu-239, Pu-240, Pu-241, Sr-90, Th-228, Th- 232, U-234, U-235, and U-238.	1
4621	RMDF Equipment Storage Building; RMHF Equipment Storage Building	Standing	Am-241, Bi-210, Co-60, Cs-137, Ir- 192, Pb-210, Ra-226, Sr-90, Th- 228, and Th-232.	1

Table 1.3f Summary of Subarea HSA-7, HSA-3, and NBZ Sites Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4622	RMDF Counting Building	Demolished	None identified. It is presumed that	1
			waste handled at other RMHF complex buildings had the potential	
			to be sampled and counted at	
			Building 4622 and thus this building area should be surveyed for the	
			same radionuclides of concern as the rest of the RMHF complex.	
4654	Interim Storage Facility	Demolished	Uranium and mixed fission and	1
4658	RMDF Guard Shack;	Standing	activation products. None identified. However, this	1
4038	RMHF Guard Shack	Standing	building was at the entry point for	1
			all incoming and outgoing fuel and waste shipments.	
4663	RMDF Storage Area;	Concrete	Uranium, plutonium, thorium	1
	RMHF Storage Area	Pad	isotopes, and mixed fission products.	
4664	RMHF Low-Level Waste	Demolished	Uranium, plutonium, thorium	1
	Processing		isotopes, and mixed fission products.	
4665	RMDF Oxidation Facility;	Standing	Uranium, plutonium, thorium	1
	RMHF Equipment Storage		isotopes, and mixed fission products.	
4688	Auxiliary Skid Shack;	Standing	Uranium, plutonium, thorium	1
	RMDF Storage Building; RMHF Storage Building		isotopes, and mixed fission products.	
N/A	RMHF Leach Field	Excavated	Am-241, Co-60, Cs-137, Eu-152,	1
			Eu-154, H-3, K-40, Ni-59, Ni-63, Pm-147, Pu-238, Pu-239, Pu-240,	
			Pu-241, Pu-242, Sr-90, Th-228, Th- 232, U-234, U-235, U-238, and Y-	
			90	
N/A	Southern California Edison Substation	Standing	Am-241, Co-60, Cs-134, Cs-137, H- 3, I-129, Pu-239, Pu-240, Pu-241,	2
	Sussain		Pu-242, Sb-125, Sr-90, Th-232, U-	
			234, U-235, and U-238.	
N/A	Northern Buffer Zone –	No	Am-241, Co-60, Cs-134, Cs-137, H-	1
	Northeast Area	structures	3, I-129, Pu-239, Pu-240, Pu-241, Pu-242, Sb-125, Sr-90, Th-232, U-	
			234, U-235, and U-238.	
N/A	Northern Buffer Zone –	No	Am-241, Co-60, Cs-134, Cs-137, H-	1
	Northwest Area	structures	3, I-129, Pu-239, Pu-240, Pu-241, Pu-242, Sb-125, Sr-90, Th-232, U-	
			234, U-235, and U-238.	

Table 1.3f (continued) Summary of Subarea HSA-7, HSA-3, and NBZ Sites Potential Radiological Contaminants of Concern

Site No.	Use(s)	Current Status	Potential Radiological Contaminants of Concern	MARSSIM Class
4009	Organic Moderated Reactor Critical Facility, Sodium Graphite Reactor Critical Facility	Standing	U-235, U-238, Th-232, Th-234, Th-228, Ra-226, Ac-228, Pb-214, Pb-212, Tl- 208, Bi-214, Bi-212, Sr-90, Cs-137, Na- 24, Co-57, Co-60, Eu-152.	1
4056	Landfill	Closed	U-238, U-233, U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Pu-241, Pu- 242, Am-241, Th-228, Th-232, Ra-226, Cs-134, Cs-137, Sr-90, H-3, Na-22, K- 40, Mn-54, Fe-55, Co-58, Co-60, Ni-59, Ni-63, Ba-133, Eu-152, Eu-154, Pm- 147, Ta-182.	1
4317/4730	Pistol Range/Isotope System Impact Test Control Building	Demolished	U-238, U-234, U-235, Pa-231, Th-230, Ac-227, Ra-226, Pb-210, H-3, K-40, Mn-54, Fe-55, Co-60, Eu-152, Eu-154.	1
4318/4820	Pistol Range/Isotope System Impact Test Device	Demolished	U-238, U-234, U-235, (Pa-231, Th-230, Ac-227, Ra-226, Pb-210, H-3, K-40, Mn-54, Fe-55, Co-60, Eu-152, Eu-154.	1
4425	Solar Concentrator Test Facility/Weather Station and Astronomical Observatory/Uranium Fuel Element Drop Site	Demolished/ In Use	U-238	1 in/near Fuel Element Drop Site; 3 elsewhere.
4814	Sodium-Water Reaction Test Structure, Large leak Injector Device	Demolished	Cs-137	2
4885	Pistol Range	Demolished	U-238, U-234, U-235, U-236, Pu-239, Pu-240, Pu-241, Pu-242, Th-232, Na-22, Na-24, Cr-51, Mn-54, Fe-59, Co-60, Kr- 85, Sr-89, Sr-90, Sb-125, I-131, Cs-134, Cs-137, Ce-141, Ce-144, Ba (La)-140, Nb-95, Ru-103, Ru-106, Xe-133, Xe- 135, Pm-147, Sm-151.	1
4886	Sodium Burn Pit, Sodium Disposal Facility	Demolished	U-238, U-234, U-235, U-236, Pu-239, Pu-240, Pu-241, Pu-242, Th-232, Na-22, Na-24, Cr-51, Mn-54, Fe-59, Co-60, Kr- 85, Sr-89, Sr-90, Sb-125, I-131, Cs-134, Cs-137, Ce-141, Ce-144, Ba (La)-140, Nb-95, Ru-103, Ru-106, Xe-133, Xe- 135, Pm-147, Sm-151.	1

Table 1.3gSummary of Subarea HSA-8 SitesPotential Radiological Contaminants of Concern



- 1. ABB Environmental Services, Inc., *Text Plan: Air Emission Source Texting of the Thermal Treatment Facility, Building 133, Rocketdyne Santa Susana Field Laboratory*, December 10, 1990.
- 2. Abbott, M.R., Internal Letter Re: Bi-Monthly Routine Radioactive Contamination Survey of Building 093, L-85 Facility, December 9, 1977.
- 3. Adler, K.L. and P.S. Olson, Rockwell International Document No N001T1000262, CERCLA Program Phase I Installation Assessment for DOE Facilities at SSFL, April 25, 1986.
- 4. Agency for Toxic Substances and Disease Registry, *Draft Preliminary Site Evaluation, Santa Susana Field Laboratory*, Atlanta, GA, December 3, 1999, pp. 2-5.
- 5. Alex, Gregory J. et al., *Kalina Complex Statement of Work and Building Demolition Assessment Checklist*, May 2003, p. 3.
- 6. Alexander, R. E., Atomics International, re: *Radiation Safety Unit Weekly Newsletter for Period Ending July* 22, 1967, August 2, 1967.
- 7. Alexander, R.E., Atomics International Internal Letter, *Re: Radiation Safety Unit Weekly Newsletter for Period Ending November 4, 1967*, November 10, 1967.
- 8. Alexander, R.E., Internal Letter Regarding "Radiation Safety Unit Weekly Newsletter for Period Ending July 8, 1967," July 13, 1967.
- 9. American Wrecking, Inc., *Demolition Proposal*, November 3, 2003.
- 10. Anonymous, Atomics International Monthly Progress Report to M. E. Remley, re: *In-Line Vacuum Switch*, November 8, 1966.
- 11. Appendix A, Building Reconnaissance Report, Building 226, GEN-??-0000, November 12, 1996, pgs. 31, 34.
- 12. Approved DOE/EPA Interview 255, July 9, 2010.
- 13. Areva NP, Inc., Report of Radiological Characterization and Confirmatory Survey Results for the SNAP Environmental Test Facility Building 4024, January 2008.
- 14. Areva NP, Inc., Survey Package C4024 101C1, SETF, Building 4024, SGTCC Test Cell B-102, April 20, 2007.
- 15. Argonne National Laboratory Report, no document number, "Surplus Facilities Management Program, Interim Post Remedial Action Survey Report for Kinetic Experiment Water Boiler (KEWB) Facility, Santa Susana Field Laboratory, Rockwell International, Canoga Park, California," May 1983.
- 16. Argonne National Laboratory, *Liquid Metal Fast Breeder Reactor Programs, Facility Profiles*, ERDA-68, December 1975, p. 71.
- 17. Argonne National Laboratory, Post Remedial Action Survey Report for the Sodium Reactor Experiment (SRE) Facility, Santa Susana Field Laboratories, Rockwell International, Ventura County, California, DOE-EV-0005-46, ANL-OHS/HP-84-101, February 1984, pp. iii-iv, 15.
- 18. Ashley, R. L., Beeley, R. J., Fillmore, F. L., Hallett, W. J., Hayward, Jr., B. R., and Jarrett, A. A., *SRE Fuel Element Damage, Final Report, NAA-SR-4488 (suppl.)*, Atomics International, 1961.
- 19. Ashley, R. L., Beeley, R. J., Fillmore, F. L., Hallett, W. J., Hayward, Jr., B. R., and Jarrett, A. A., *SRE Fuel Element Damage: An Interim Report, NAA-SR-4488*, Atomics International, November 15, 1959.
- 20. Ashley, R. L., *Evaluation of the Atomics International Nuclear Development Field Laboratory as a Location for Reactor Facilities*, Atomics International Report No. NAA-SR-7300, May 25, 1962, p. V-53.
- 21. Ashley, R.L., Internal Letter Re: Storage of Explosives in Building 353, Santa Susana, February 28, 1968.
- 22. Asph. Conc. Paving, S.E.T.F. Building 024 Santa Susana, 1964.
- 23. Atomics International As-Built Drawing, *Central Sewage System Plan & Topography*, Drawing No. 303-GEN.-C-17, February 26, 1960.
- 24. Atomics International As-Built Drawing, *ETB High Bay Modifications Contaminated Waste 1st & 2nd Floor*, Drawing No. 303-003-P21, October 19, 1964.
- 25. Atomics International As-Built Drawing, *Santa Susana Facility Plot Plan*, Drawing No. 303-GEN.-C-37, June 5, 1967.
- 26. Atomics International As-Built Drawing, Separations Chemistry ETB Hot Cell Installation Floor Plan, Drawing No. 303-003-57, July 27, 1959.

- 27. Atomics International Document, AI-70-73, "Safety Analysis Report for L-85 Nuclear Examination Reactor," November 25, 1970.
- 28. Atomics International Document, N704FDP990006 Rev. A., "Building T024 (SETF) Facilities Dismantling Plan," July 31, 1981.
- 29. Atomics International Drawing No. 303-363-E6, Electrical Plan OMR Heat Trans. Loop Bldg 363, Santa Susana, February 17, 1969.
- 30. Atomics International Drawing, *Low Level Radioactive Waste Facility, Mechanical Plan and Sections, 303-664-M2*, Approved February 1964.
- 31. Atomics International Drawing, *Low Level Radioactive Waste Facility, Site Plan & Details, 303-664-C1,* Illegible Date.
- 32. Atomics International Drawing, *Modification for Low Level Radioactive Waste Equipment, Bldg.* 664 *Plans, Sections & Details, 303-664-S4, January 1966.*
- 33. Atomics International Drawing, *Radioactive Scrap Oxidation Facility, Building 665, Santa Susana Field Laboratory, Floor Plan, Elevations, and Details, 303-665-A1*, Illegible Date.
- 34. Atomics International Drawing, *Radioactive Scrap Oxidation Facility, Miscellaneous Details, 303-665-M5*, Illegible date.
- 35. Atomics International Drawing, Santa Susana Facility Plot Plan, 303-GEN-C40, February 19, 1969.
- 36. Atomics International Drawing, Santa Susana Facility Plot Plan, 303-GEN-C40, June 5, 1967.
- 37. Atomics International Incident Report from D. E. Owens to R. M. Hill re: Sodium Disposal Area spill on June 11, 1964, dated June 18, 1964.
- 38. Atomics International Internal Document, no document number, Special Survey of Building 353 Area.
- 39. Atomics International Internal Letter from D. E. Owens to O. R. Hillig, Re: *Disposal of Liquid Waste from the Building 009 Holdup Tanks*, November 2, 1965.
- 40. Atomics International Internal Letter from D. E. Owens to O. R. Hillig, Re: *Reclassification of Tagged Area*, dated October 1, 1965.
- 41. Atomics International Internal Letter from E. E. Owens to R. M. Hill, Re: *Incident in Building 009 OMR on June 11, 1964*, dated June 17, 1964.
- 42. Atomics International Internal Letter, Letter Re: SNAP 10FS-3, Building 027, Santa Susana, August 6, 1964.
- 43. Atomics International Inter-office Letter from J. P. Klostermann to E. C. Hickey re: Incident in Building 009 OMR on July 5, 1961, dated July 13, 1961.
- 44. Atomics International letter from J. F. Trevillyan to J. V. Levy, U.S. AEC, re: *Sodium Components Cleaning Facility*, May 28, 1962.
- 45. Atomics International letter from W. F. Heine to R. L. Westby, U.S. Atomic Energy Commission, re: *Contamination Limits for Release of KEWB and Building 003 for Unrestricted Use*, November 21, 1974.
- 46. *Atomics International Radioactive Waste Facility Office Bldg Floor Plan & Elevations, 303-034-A2*, June 19, 1962.
- 47. Atomics International Use Authorization No. 85, issued January 16, 1975, in effect until January 16, 1976.
- 48. Atomics International, Atomics International: A Division of North American Aviation, Inc. Facilities Capabilities, December 31, 1959.
- 49. Atomics International, AI-67-3, Radiation and Nuclear Safety at Atomics International, March 1, 1967.
- 50. Atomics International, AI-70-73, Safety Analysis Report for L-85 Nuclear Examination Reactor, November 25, 1970.
- 51. Atomics International, AI-74-44, Special Nuclear Material Control Program for Plutonium Use by Atomics International Division of Rockwell International in Research and Development Activities Under Special Nuclear Material License No. SNM-21, May 24, 1974.
- 52. Atomics International, AI-75-31, Atomics International Environmental Monitoring and Facility Effluent Annual Report 1974, 1975.
- 53. Atomics International, Atomics International Hot Laboratory Capabilities and Facilities, Date Unknown.
- 54. Atomics International, Building 009 Santa Susana Proposed Modifications R/A Waste Systems SGR & OMR Hold-up Tanks, Drawing No. 303-009-XPJO, February 22, 1962.
- 55. Atomics International, Document N704FDP990006 Rev. A., "Building T024 (SETF) Facilities Dismantling Plan," July 31, 1981.

- 56. Atomics International, Document NAA-SR-7300 Special, "Evaluation of the Atomics International Nuclear Development Field Laboratory as a Location for Reactor Facilities," May 25, 1962.
- 57. Atomics International, Document No. AI-5316, A Materials Research Proposal for Advanced Nuclear Space Systems, June 13, 1960.
- 58. Atomics International, Document No. AI-77-14, Environmental Monitoring and Facility Effluent Annual Report 1976, Undated.
- 59. Atomics International, Document No. NAA-SR-9469, *Project Proposals Fiscal Years 1965 and 1966,* Sodium Cooled Reactor Development Programs, November 2, 1964.
- 60. Atomics International, Document No. TI-001-630-001, Safety Review Committee Action on Glove-Box Operation Safety Evaluation for Radwaste Combustor in Bldg T055, January 30, 1975.
- 61. Atomics International, Document PP-704-990-002, *Decontamination and Disposition of Facilities Program Plan*, January 23, 1975.
- 62. Atomics International, Drawing 303-00C-C2, "Misc. Paving, Patching & Drainage Improvements KEWB," Date illegible, circa 1969. HDMSE00457545.
- 63. Atomics International, Drawing 303-027-S6, Expansion of Non-Nuclear Mechanical Vibration and Shock Testing Building 027 Expansion, January 16, 1963.
- 64. Atomics International, Drawing 303-363-A3, Floor Plans & Details, Building 363 Remodel, Date illegible.
- 65. Atomics International, Drawing 303-363-P3, *Water Line Location Bldg 363 Fire Protection Modification*, October 7, 1957.
- 66. Atomics International, Drawing 303-375-C1, *Drain Tank Pit and 15HP Pump Installation Bldg #375 Area*, April 4, 1958.
- 67. Atomics International, Drawing 303-GEN-C17, Central Sewage System, Plan & Topography, August 27, 1959. Not an "As-built" drawing.
- 68. Atomics International, Drawing 303-GEN-C-42, Santa Susana Facility Plot Plan, Sheet 8 of 14, 1964.
- 69. Atomics International, Drawing A3-7810, CDHC Building Foundation Details, Date Illegible.
- 70. Atomics International, Drawing No. 303-020-P17, Building 020 Santa Susana Facility, Breathing Air Supply, Date Illegible.
- 71. Atomics International, Drawing No. 303-027-C2 Expansion of Non-Nuclear Mechanical Vibration and Shock Testing Building 027 Expansion, Topographic Plan, February 4, 1963.
- 72. Atomics International, Drawing No. 303-363-C13, Grading and Plot Plan, Building 363 Remodel, 1957.
- 73. Atomics International, Drawing No. 303-873-S5, *Installation of OMR Mock-Up Fuel Handling Bridge and Index Arrangement #875*, Date Illegible.
- 74. Atomics International, Drawing No. 303-GEN-C18, *Central Sewage System Plan & Topography*, August 27, 1959.
- 75. Atomics International, Drawing No. 303-GEN-C40 Sheet No. 6, *Santa Susana Facility Plot Plan*, February 17, 1969.
- 76. Atomics International, Drawing No. 303-GEN-C41, Sheet 7 of 14, Santa Susana Facility Plot Plan,
- 77. Atomics International, Drawing No. A-3-4213, Components Development Hot Cell Yard Piping Plan, Date Illegible.
- 78. Atomics International, *Emergency Medical and Decontamination Facility, Building 040 Santa Susana*, no date.
- 79. Atomics International, Facilities and Data Department, *Progress Report Fiscal Year 195 and Forecast Fiscal Year 1958*, January 1958.
- 80. Atomics International, FDP-704-990-002, *Dismantling Plan for KEWB Facility (Bldgs 073,123 and 793)*, October 17, 1974.
- 81. Atomics International, Industrial Planning Map Nuclear Development Field Laboratories, Santa Susana, March 15, 1962.
- 82. Atomics International, Industrial Planning Map Nuclear Development Field Laboratories, May 1972.
- Atomics International, Internal Letter Re: Radiological Safety Incident Report, Building 353 Bay 3, August 31, 1960.
- 84. Atomics International, Internal Letter Re: Tour and Inspection of AI Fuel Handling and Storage Facilities, August 8, 1966.

- 85. Atomics International, License Application for the Nuclear Materials Development Facility, June 24, 1966.
- 86. Atomics International, Management of AEC-Generated Radioactive Wastes at Atomics International, May 31, 1974, pgs. 1-2.
- 87. Atomics International, NAA-SR-11491, Volume 1, Progress Report SNAP Systems Improvement Program, Mercury Rankine Program, April – June 1965, August 15, 1965.
- 88. Atomics International, NAA-SR-7300, Evaluation of the Atomics International Nuclear Development Field Laboratory as a Location for Reactor Facilities, May 25, 1962.
- 89. Atomics International, NAA-SR-MEMO-11605, Weekly Highlights for S8ER Operations Week Ending August 21, 1965, August 27, 1965.
- 90. Atomics International, Notice of [Illegible] Infraction, A0494, December 18, 1959.
- 91. Atomics International, Nuclear Development Field Laboratories Industrial Planning Map, Santa Susana, March 15, 1962.
- 92. Atomics International, Nuclear Development Field Laboratories Industrial Planning Map, Santa Susana, January 1, 1967.
- 93. Atomics International, Nuclear Development Field Laboratories, April 1, 1971.
- 94. Atomics International, Nuclear Development Field Laboratories, Industrial Planning, March 15, 1962.
- 95. Atomics International, Nuclear Development Field Laboratories, January 1, 1967.
- 96. Atomics International, Nuclear Development Field Laboratories, March 1973.
- 97. Atomics International, Nuclear Development Field Laboratories, March 1975.
- 98. Atomics International, *Nuclear Operations Support Building 057, Floor Plan and Elevations*, Map No. 303-057-A4, November 6, 1972.
- 99. Atomics International, *Photograph Number S-294*, April 24, 1969, HDMSM000000264.
- 100. Atomics International, PP-704-990-002, Decontamination and Disposition of Facilities Program Plan, January 23, 1975.
- 101. Atomics International, Report No. AI-70-73, Revision 1, Safety Analysis Report for L-85 Nuclear Examination Reactor, September 24, 1971.
- 102. Atomics International, Santa Susana Facility Plot Plan Drawing 303-GEN-C45, Sheet 11 of 14, February 21, 1969.
- 103. Atomics International, Santa Susana Facility Plot Plan, 303-GEN.-C40, May 1969.
- 104. Atomics International, Santa Susana Facility Plot Plan, Drawing 303-GEN-C38, Sheet 4 of 14, June 4, 1964.
- 105. Atomics International, Santa Susana SRE Facility Map, July 14, 1964.
- 106. Atomics International, Site Waste Management Plan, Circa 1972, p. 2.
- 107. Atomics International, Van De Graff Generator Installation SGR Building 009 Santa Susana, Electrical Plan & Details, Drawing No. 303-009-E17, May 4, 1962.
- 108. Author Illegible, Handwritten Correspondence, Subject: Storage Area Northwest of T028, July 24, 1981.
- 109. Author Unknown, Facility Information Bldg 373, Date Unknown.
- 110. Author Unknown, Fire Preplan Building 863 Test Stand, Undated.
- 111. Author unknown, Vanowen and SSFL Operations 1959, Laboratory Status Reports, undated.
- 112. Authorization for the Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 27A, Issue Date: October 21, 1971, Expiration Date: October 21, 1972.
- 113. Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 124J, Issue Date: November 22, 1991, Expire Date: November 22, 1992, BNA02851152.
- 114. Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization Nos. 124K, 124K, Issue Dates: January 8, 1993 and January 8, 1994.
- 115. Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 124P, Issue Date: January 9, 1998, Expire Date: March 31, 1999.
- 116. *Authorization for Use of Radioactive Materials or Radiation Producing Device*, Authorization No. 141H, Issue Date: February 27, 1996, Expiration Date: December 31, 1996.
- 117. Authorization for Use of Radioactive Materials or Radiation Producing Device, Authorization No. 1411, Issue Date: December 16, 1996, Expiration Date: December 31, 1997.
- 118. Authorization for Use of Radioactive Materials or Radiation Producing Device, Authorization No. 141K, Issue Date: December 15, 1998, Expiration Date: December 31, 1999.

- 119. Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 72, Issue Date: January 8, 1974, Expiration Date: January 8, 1975.
- 120. Authorization for Use of Radioactive Materials or Radiation Producing Device, Authorization No. 125, Issue Date: September 18, 1981, Expiration Date: September 18, 1982.
- 121. Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 132E, Issue Date: November 25, 1991, Expire Date: November 25, 1992.
- 122. Authorization for Use of Radioactive Materials or Radiation Producing Device, Authorization No. 141H, Issue Date: February 27, 1996, Expiration Date: December 31, 1996.
- 123. Authorization for Use of Radioactive Materials or Radiation Producing Device, Authorization No. 1411, Issue Date: December 16, 1996, Expiration Date: December 31, 1997.
- 124. *Authorization for Use of Radioactive Materials or Radiation Producing Device*, Authorization No. 141K, Issue Date: December 15, 1998, Expiration Date: December 31, 1999.
- 125. Authorization Series 118, Shutdown Rod Measurement, J. V. Menteer, August 1978.
- 126. *B/133 Status Report*, Unknown Author, March 15, 1993 through October 29, 1993, HDMSe00381574 HDMSE 00381640.
- 127. B0008 Warehouse Notes, Unknown Author, February 11, 2000, HDMSP001786349.
- 128. Badger, F. H., Atomics International Internal Letter, re: Air-borne Activity of SRE High Bay, April 6, 1962.
- 129. Badger, F. H., North American Aviation Internal Letter, re: *Contamination Incident SS Vault Santa Susana*, November 11, 1965.
- 130. Badger, F. H., North American Aviation Internal Letter, re: SRE R/A Liquid Release, April 17, 1964.
- 131. Badger, F.H., Atomics International Internal Letter, Re: Incident Report, June 25, 1965.
- 132. Badger, F.H., Atomics International Internal Letter, Re: Incident Report, Non-Radioactive Outside Storage Area at AIHL Bldg. 020, SS, 8-12-65, August 16, 1965.
- 133. Badger, F.H., Atomics International Internal Letter, *Re: Spread of Contamination in Area # 654*, February 18, 1962.
- 134. Badger, F.H., Internal Letter Re: Investigation of Reported Missing Radioactive Sources, January 8, 1964.
- 135. Badger, F.H., North American Aviation Internal Letter, *Re: Investigation of In-Cell Fire at CDHC*, November 4, 1963.
- 136. Badger, F.H., Rockwell International Internal Letter, Re: Final Report Fermi Zirconium Fines Explosion Bldg. 20, April 2, 1982.
- 137. Badger, F.H., Rockwell International Internal Letter, *Re: Fuel Slug Fire Cell 2, July 29, 1975*, September 29, 1975.
- 138. Badger, F.H., Rockwell International Internal Letter, Re: Radioactive Spills in RMDF, October 17, 1975.
- 139. Badger, F.H., Rockwell International Internal Letter, *Re: Radiological Occurrence Bldg T020*, October 3, 1977.
- 140. Badger, F.H., Rockwell International Internal Letter, *Re: Radiological Safety Incident Report, T020, October 20, 1981*, November 19, 1981.
- 141. Badger, F.H., Rockwell International Internal Letter, *Re: Radiological Safety Incident Report, T020 Airlock,* 12/18/81, December 23, 1981.
- 142. Badger, F.H., Rockwell International Internal Letter, *Re: Radiological Safety Incident Report, T020 Cell 1, March 22, 1982, March 29, 1982.*
- 143. Badger, F.H., Rockwell International Internal Letter, *Subject: Lost Source Discovery*, September 9, 1975.
- 144. Badger, F.H., Rockwell International Internal Letter, Subject: Radiological Safety Incident Report, T022 High Bay, May 28, 1981, June 9, 1981.
- 145. Bailey, Edgar D., Response to 2005RC001000 Request to Perform Confirmatory Surveys of the Upper Portion of
- 146. Barnes, C., Rockwell Incident Report, re: SSFL T462 Control Room, September 28, 1998.
- 147. Barnes, J., *Final Radiological Survey Data Package for Building 011, Santa Susana Field Laboratory*, The Boeing Company, July 28, 1998.
- 148. Barnes, J., Rockwell Internal Letter to Distribution, re: CAT Scanner Operation with Individual in Cell, October 23, 1992.
- 149. Barnes, J.G., and Rutherford, P.D., Authorization No. 112D, March 18, 1992.

- 150. Barnes, J.G., and Rutherford, P.D., Authorization No. 112F, April 20, 1994.
- 151. Barnes, J.G., and Rutherford, P.D., Authorization No. 112H, January 30, 1996.
- 152. Barnes, J.G., and Rutherford, P.D., Authorization No. 112I, January 14, 1997.
- 153. Barnes, J.G., and Rutherford, P.D., Authorization No. 112L, March 15, 1999.
- 154. Barnes, J.G., and Rutherford, P.D., Authorization No. 112U, April 7, 2008.
- 155. Barnes, J.G., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization Number 166, December 1, 1993.
- 156. Barnes, J.G., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization Number 166A, December 7, 1994.
- 157. Barnes, J.G., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization Number 166B, December 23, 1995.
- 158. Barnes, J.G., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization Number 166C, February 11, 1997.
- 159. Barnes, J.G., Authorization for Use of Radiological Materials or Radiation Producing Devices, Authorization No. 157, August 4, 1992.
- 160. Bassat, I.B., RMHF Familiarization Document, EID-06144, Rev. A, The Boeing Company, May 24, 2001
- 161. Bassat, S. and P. Holten, Occurrence Report RD-91-3-RMDF-91-2, February 28, 1991.
- 162. Baumesh, L., and Heine, W., Authorization No. 46, August 5, 1971.
- 163. Begley, F. E, Rockwell Internal Letter to Radiation and Nuclear Safety Group, re: *Radiological Safety Incident Report, Lower Level of T059*, April 6, 1989.
- 164. Begley, F.E., Internal Letter Re: Radiological Safety Incident Report, October 21, 1986.
- 165. Begley, F.E., Radiation Survey of Building 012, SCTI Cogeneration Project, Rockwell International, Rocketdyne Division, May 30, 1985, p. 3.
- 166. Bell, C. E., Atomics International Internal Letter, re: Violation of Health Physics Practices, December 11, 1959.
- 167. Bell, C. E., Internal Letter, re: Violation of Health Phys. Practices, October 8, 1959.
- 168. Benjamin, S., *Hazardous Waste Management Facility Program Management Plan, 133-AN-0003*, Energy Technology Engineering Center, June 4, 1992, p. 3.
- 169. Bergstrom, W. H., Atomics International Internal Letter, re: *Incident Report, Fuel Handling Machine Service Pit, June 15, 1964*, June 24, 1964.
- 170. Bergstrom, W. H., Atomics International Internal Letter, re: SRE High Bay, 2-20-65, February 24, 1965.
- 171. Blackshaw, G.L., NAA-SR-Memo 3757, "Release of Fission Gases from the AE-6 Reactor on March 25, 1959," April 15, 1959.
- 172. Boeing Corporation, Statement of Work, *Removal of ETEC Fuel Oil Storage and Distribution System*, October 14, 1997, p. 2.
- 173. Boeing Data Package, no document number, Septic and Leachfield Survey Data 011, 353, and 373.
- 174. Boeing Document, EID-04366, "Removal of DOE Buildings, Demo Pak A," May 18, 1999.
- 175. Boeing Environmental Affairs, Fact Sheet, Building 4064 Fuel Storage Facility, February 10, 2000.
- 176. Boeing Incident Database, Reviewed 2011.
- 177. Boeing Internal Letter from J. G. Barnes to Use Authorization File, stating the Use Authorization No. 159 had been terminated, dated January 14, 2002.
- 178. Boeing Internal Letter from J. Shao to P. Rutherford, re: *Soil Sampling Results for Building 064 Area at SSFL (Revision)*, September 24, 1998.
- 179. Boeing letter from B. K. Ludwig to J. Flores, Ventura County Air Pollution Control District, re: *Demolish Building 4014, Area IV, Santa Susana Field Laboratory*, May 19, 2003.
- 180. Boeing letter from B. Sujata to S. Baxter, California Environmental Protection Agency, re: *Radiological Release of Former Building 724*, November 14, 2005.
- 181. Boeing Letter from M Lee to M. Lopez, U.S. Department of Energy, re: *Building 064 Side Yard*, May 13, 1998.
- 182. Boeing letter from P. B. Ramirez to R. Laughlin, Resource Management Agency, Ventura County, re: *Buildings 4041, 4687 and 4662 Demolition Project, Area IV, ETEC, Santa Susana Field Laboratory*, January 26, 1998.

- 183. Boeing Radiation Incident Database, 2010.
- 184. Boeing Radiation Survey Reports, L-85 Facility Septic Tank Area, July and September 1999.
- 185. Boeing, Building(s) 4353, 4363, 4375 and 4873 Addendum to Demolition Contract, September 4, 2001.
- 186. Boeing, Building(s) 4353, 4363, 4375, and 4873 Addendum to Demolition Contract, April 23, 2003.
- 187. Boeing, Document No. EID-06141, Hot Laboratory Decontamination and Dismantlement Final Report, November 27, 2001.
- 188. Boeing, Document No. N001SRR140131, Approved Sitewide Release Criteria for Remediation of Radiological Facility at the SSFL, February 18, 1999.
- 189. Boeing, Document No. RS-00010, Area 402 MARSSIM Final Status Survey Report, October 31, 2000.
- 190. Boeing, EID-06141, "Hot Laboratory Decontamination and Dismantlement Final Report," November 27, 2001.
- 191. Boeing, ETEC Closure, Landscaping of Old Trailer Parking Lot, No date.
- 192. Boeing, Radiation Safety Records Management System.
- 193. Boeing, Radiation Survey Report, Building T039, Internal Document, No Document Number, April 15, 2003.
- Boeing, Radioactive Waste Certification Plan (WCP) for ETEC Facilities, EID-04758, February 21, 2001. p. 5.
- 195. Boeing, RD01-152, Site Environmental Report for Calendar Year 2000, DOE Operations at the Boeing Company Rocketdyne Propulsion & Power, September 2001.
- 196. Boeing, RD99-115, Site Environmental Report for Calendar Year 1998 DOE Operations at Rocketdyne Propulsion & Power, September 22, 1999.
- 197. Boeing, Report No. A4CM-ZR-0012, Rocketdyne Propulsion & Power DOE Operations Annual Site Environmental Report 1997, November 23, 1998.
- 198. Boeing, Report No. RD97-134, Rocketdyne Propulsion & Power DOE Operations Annual Site Environmental Report 1996, November 10, 1997.
- 199. Boeing, RS-00010, "Area 4020, MARSSIM Final Status Survey Report," October 31, 2000.
- 200. Boeing, RS-00010, Area 4020 MARSSIM Final Status Survey Report, August 31, 2000.
- 201. Boeing, Site Environmental Report for Calendar Year 2001, DOE Operations at the Boeing Company Rocketdyne Propulsion & Power, RD02-148, September 2002.
- 202. Boeing, Site Environmental Report for Calendar Year 2002, DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, RD02-148-01, September 2003.
- 203. Boeing, Site Environmental Report for Calendar Year 2003, DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, RD02-148-01, September 2004, p. 5-13.
- 204. Boeing, Specification Buildings 4363, 4375, and 4873 Addendum to Demolition Contract, November 15, 2000.
- 205. Boeing, Specification Buildings 4363, 4375, and 4873 Addendum to Demolition Contract, September 4, 2001.
- 206. Borg, G., Atomics International Internal Letter, re: Account of Incident on September 10, 1959 at about 10 a.m. in the Radioactive Waste Storage Area West of the SRE as per G. Borg, September 11, 1959.
- 207. Borg, G., Wash Cell Incident at the Sodium Reactor Experiment, AI Memo 5155, Atomics International, April 6, 1960.
- 208. Borg, J. and E.J. Marcotte, Atomics International Internal Letter, re: Steam Clean Pad Incident, June 2, 1960.
- 209. Bradbury, S.M., Rockwell International Internal Letter, Subject: Radiological Safety Incident Report T028 Hold-Up Pond, January 22, 1982.
- 210. Bradbury, S. M., Rockwell International Internal Letter, re: *Radiological Safety Incident Report, Building* 064, 1/12/82, Unknown Date.
- 211. Bradbury, S.M, Rockwell International Internal Correspondence, *Re: Sump Overflow in the 5,000-Gal Holdup Tank Enclosure at the RMDF*, June 7, 1978.
- 212. Bradbury, S.M., Internal Letter Re: Radiological Safety Incident Report, March 29, 1983.
- 213. Bradbury, S.M., Internal Letter Re: Radiological Safety Incident Report, Building 023, April 28, 1981.
- 214. Bradbury, S.M., Radiological Survey Results - Release to Unrestricted Use, RMDF Leach Field, SSFL, N704T1990042, Rockwell International, November 7, 1978.
- 215. Bradbury, S.M., Rockwell International Internal Correspondence, *Re: Radiological Safety Incident Report, RMDF, January 9, 1980*, April 9, 1980.

- 216. Bradbury, S.M., Rockwell International Internal Letter Re: Replacement of R/A Waste Line to Hold-up Tanks at Bldg. 055, December 8, 1976.
- 217. Bradbury, S.M., Rockwell International Internal Letter, Subject: Fire in the Sodium Melt Vessel in Building 022, May 23, 1977.
- 218. Bradbury, S.M., Internal Letter Re: Radiological Safety Incident Report, Building 023, December 18, 1980.
- 219. Breese, J.W., Rockwell International Internal Letter Re: Off-Scale Reading of Personal Dosimeter, February 19, 1982.
- 220. Breese, J.W., Rockwell International Internal Letter Re: Radiation Exposure Occurrence, August 20, 1981.
- 221. Brehm, R.L., Atomics International Document No. NAA-SR-7011, Summary Hazards Report and Operations Manual for SNAP Critical Assemblies 4A and 4C, January 22, 1962.
- 222. Brengle, R. G. and Phillips, D. A., *SRE Mockup Operations Test Plan*, Atomics International Report No. N704-TP-990-005, October 9, 1975, p. 6.
- 223. Brengle, R.G., Rockwell International Internal Letter, re: Spill of Radioactively Contaminated Water During SRE Backflush Operations, November 15, 1977.
- 224. Bresson, J. F., Rockwell Internal Letter to W. F. Heine, re: Fire in Building T059 Vault, February 26, 1970.
- 225. Bresson, J. F., North American Aviation Internal Letter, re: Film Badge Exposure Contamination at the ETC, SS003, Bresson to Heine, 9/13/69, October 15, 1969.
- 226. Bresson, J. F., North American Rockwell Corporation Internal Letter, re: *Contamination at the ETC, S003*, September 15, 1969.
- 227. Brinkman, D.S., S8ER Operations Manual, Volume 1, Description and Operating Procedures, NAA-SR-MEMO-7222, Atomics International, November 1, 1962, pgs. 3-4.
- 228. Bryan, R.L. Document P-067E-B01-AM032, "SSTF (032) Assembly and Installation Inherently Safe Shutdown System-Articulated Control Assembly," August 28, 1978.
- 229. Busick, D.D., Internal Letter North American Aviation, Inc., Re: Water Supply in Building 027, August 15, 1963.
- 230. Busick, D.D., Internal Letter Re: Report of Radioactive Contamination Incident of the Radiation Measurement Facility Building 029, April 10, 1964.
- 231. Butner, Gary W., Response to Request to Perform Confirmatory Surveys of Building 4024 Stack, Lead shot, and Facility Penetrations, Santa Susana Field Laboratory, June 13, 2007.
- 232. Cabrera Services, Final Characterization and Final Status Survey Report: Radioactive Materials Handling Facility Holdup Pond (Site 4614), March 2007, pgs. 2, 9.
- 233. Cabrera Services, Final Combined Summary Report: Radioactive Materials Handling Facility Building Surveys, Santa Susana Field Laboratory, Ventura County, California, October 2007, p. 2.
- 234. Cabrera Services, Final Depleted Uranium Slug Search, Santa Susana Field Laboratory, Ventura County, California, Contract No. 114579, Project No. 08-1011.00, June 2008, pp. v. 1-2.
- 235. Cabrera Services, Final Final Status Survey Report: Final Status Survey Post Historical Site Assessment Sites, Block 1, Santa Susana Field Laboratory, Ventura County, California, March 2007, p. 2.
- 236. Cabrera Services, Final Final Status Survey Report: Characterization and Final Status Survey, Radioactive Materials Handling Facility, Santa Susana Field Laboratory, Ventura County, California, March 2006, pgs. 1-2, 13-14, 29-36, 49.
- 237. Cabrera Services, Final Status Survey Report: Final Status Survey Post Historical Site Assessment Sites, Block 1, Santa Susana Field Laboratory, Ventura County, California, March 2007, pgs 18-20, 31, 39.
- 238. Cabrera Services, Final Radiological Final Status Survey of Building 4006, June 2008, pgs. vi, 8-9, 38.
- 239. Cabrera Services, Inc., Final Status Survey Report: Final Status Survey Post Historical Site Assessment Sites, Block 1, March 2007.
- 240. Cabrera Services, Inc., Final Status Survey Report: Final Status Survey Post Historical Site Assessment Sites, Block 1, Santa Susana Field Laboratory, Ventura County, California, March 2007, pp. 1, 19, 31, 39, Attachment 1, p. 12.
- 241. California Department of Health Services Letter from G. Wong to P. D. Rutherford, confirming the release of the former Sodium Disposal Facility, dated May 15, 1998.

- 242. California Department of Health Services Letter from G. Wong to P. D. Rutherford, re: Rocketdyne's Letter Dated July 6, 1995 with Attachments Concerning the Release of Buildings T029, T028 and OCY, December 21, 1995.
- 243. California Department of Health Services, Confirmatory Survey: Soil Samples from the Former Sodium Disposal Facility, September 16, 1997, pp. 1-6.
- 244. California, Department of Health Services, Radiologic Health Branch, Preliminary Radiological Survey of Mercury Contaminated Soils East of the Former SRE Building Survey Date: July 26, 2001, November 19, 2002.
- 245. Camp Dresser & McKee Inc., Underground Storage Tank Closure Report: UT-75, Building B/353, Santa Susana Field Laboratory, July 12, 2001.
- 246. Carroll, J.W. et al., RMDF Leach Field Decontamination Final Report, ESG-DOE-13385, Rockwell International, September 15, 1982, p. 7.
- 247. Cehn, J. I., Results of Environmental Radiation Survey at Brandeis-Bardin Institute, Brandeis, California, July 1991, pp. 2, 6, 8, 12.
- 248. Certification of the Radiological Condition of Building 028 at the Energy Technology Engineering Center Near Chatsworth, California, Federal Register Vol. 62, No. 65, April 4, 1997, pgs. 16144-16146.
- 249. CH2MHILL and Montgomery Watson Harza, *Draft Report, Waste Debris Survey, Santa Susana Field laboratory, Ventura County, California*, March 2008, pp. 1, Figures 1, G-1, Table G-1.
- 250. CH2MHILL, Draft Site-Wide Debris Removal and Documentation Summary, Santa Susana Field Laboratory, Ventura County, California, October 12, 2010, pp. 1, 4, Figure 7.
- 251. Channel Islands Regional GIS Collaborative (CIRGIS), 2007
- 252. Chapman, J. A., *Executive Summary of the DOE SSFL Site Radiological Survey*, ETEC Report No. GEN-ZR-0015, October 10, 1988, pp. 19-20.
- 253. Chapman, J. A., *Radiological Survey of Building T009*, Energy Technology Engineering Center Report No. GEN-ZR-0014, August 26, 1988, p. 66,
- 254. Chapman, J. A., Radiological Survey of Buildings T019 and T013; an Area Northwest of T059, T019, T013, and T012; and a Storage Yard West of Buildings T626 and T038, GEN-ZR-0010, 1988, pp. 25, 85, 91-92.
- 255. Chapman, J. A., *Radiological Survey of Buildings T049, T042, T027, T032, and T025, GEN-ZR-0013,* Rockwell International, Rocketdyne Division, August 8, 1988, p. 22.
- 256. Chapman, J. A., *Radiological Survey of the ESG Salvage Yard (Old), Rocketdyne Barrel Storage Yard, and New Salvage Yard (T583)*, ETEC Report No. GEN-ZR-0008, August 22, 1988, pp. 2-3, 15-26, 57-80.
- 257. Chapman, J. A., *Radiological Survey of the Sodium Disposal Facility–Building T886*, ETEC Report No. GEN-ZR-0004, June 3, 1988, pp. 7-8, 19-20.
- 258. Chapman, J. A., Radiological Survey of the Source and Special Nuclear Material Storage Vault-Building T64, GEN-ZR-0005, August 19, 1988, pp. 7, 16-21.
- 259. Chapman, J. A., *Radiological Survey of the T056 Landfill, Area from 23rd Street to Building T100; and an Area across from Building T011*, Energy Technology Energy Center Report GEN-ZR-0011, August 26, 1988, pp. 24-25, 81.
- 260. Chapman, J. A., Radiological Survey of the T513 Parking Lot; Old R/A Laundry Area; Plot 333; and Areas between SRE to RMDF, and KEWB to RMDF, GEN-ZR-0009, August 26, 1988, pp. 8, 19, 54, 61-64, 77.
- 261. Chapman, J.A., Radioactive Materials Disposal Facility Safety Analysis Report, Rockwell International, June 16, 1986, p. 63.
- 262. Chapman, J.A., Radiological Survey f the T056 Landfill; Area from 23rd Street to Building T100; And An Area Across From Building T011, GEN-ZR-0011, Rockwell International, Rocketdyne Division, August 26, 1988, pgs. 3, 9-11, 13, 20, 62, 76, 79, 81, Appendix C.
- 263. Chapman, J.A., Tuttle, R.J., and Stafford, K.T., Radiological Survey of Buildings T373, T374, and T375, Rocketdyne Division, Rockwell International Report GEN-ZR-0012, August 26, 1988, pp. 17-23.
- 264. Chell, Meghann, Questions for Paul Waite (Boeing) Regarding RHMF Site History, MWH, March 16, 2009.
- 265. Citing Boeing Internal Document, no document number, Radiation Survey Report, Building B373-Septic Tank, December 7, 2000.
- 266. Clark, R., and Potter, G., SEC Petition Evaluation Report Summary: SEC-00093, Santa Susana Field Laboratory-Area IV, April 28, 2009.

- 267. Cleveland, J.R., Safety Hazards Report, GEN-ZR-0001, Energy Technology Engineering Center, April 30, 1985, pg. 38.
- 268. Clow, H.E., Atomics International Internal Correspondence, Subject: Fire Alarm, Bldg. 021, November 15, 1966.
- 269. Clow, H.E., Atomics International Internal Letter, Re: Liquid Waste Removal at CDHC, January 20, 1960.
- 270. Collins, J., Baseline Radiological Survey of the Sodium Disposal Facility (T886), Rockwell International Report No. N704SRR990034, August 31, 1992, pp. 1, 6-12, 18.
- 271. Collins, J., Final Radiological Inspection of the RMDF Leach Field for Release for Unrestricted Use, N704TP990010, Rockwell International, August 12, 1980, p. 9.
- 272. Coonce, G. L., Atomics International Internal Letter, re: UC Fire at Building 064, May 8, 1963.
- 273. Coonce, G.L., Atomics International Internal Letter, Re: Contamination Survey, June 7, 1962.
- 274. Corning, F.E., Memorandum, Sodium Fire, Building #022, Santa Susana, June 26, 1968. The building number is incorrectly identified on this June 26, 1968 memorandum subject line. The content of the memorandum indicates the fire occurred on the south side of Building 4021.
- 275. Correspondence from Bailey, E., California Department of Health Services, Radiologic Health Branch, to Rutherford, P., The Boeing Company, Reference: In reply to letter 2000RC-2627, Request for Release of the 17th Street Drainage Area for Unrestricted Use, dated August 14, 2004.
- 276. Correspondence from Bunn, D., Department of Health Services, Radiation Health Branch, to Sutherland, D., U.S. Department of Energy, Reference: Complaint Concerning Rocketdyne Trailers, dated February 14, 2000.
- 277. Correspondence from Butner, G., California Department of Health Services, Radiologic Health Branch to Rutherford, P., The Boeing Company, Re: Building 4133, Area IV, Santa Susana Field Laboratory, March 13, 2007.
- 278. Correspondence from Chell, M., MWH, to Trippeda, D., Boeing, Re: Conversation with Dan Trippeda Regarding RMHF Catch Basin, February 23, 2009.
- 279. Correspondence from Chell, M., MWH, to Waite, P., Boeing, Re: Conversation with Paul Waite Regarding RHMF Questions, March 16, 2009.
- 280. Correspondence from Chell, M., MWH, to Waite, P., Boeing, Re: Conversation with Paul Waite Regarding RHMF [sic] Site History, February 23-24, 2009.
- 281. Correspondence from Evans, J.T., Rockwell International, to Long, M.E., Department of Energy, Re: Strategic Facility Initiative, March 23, 1987.
- 282. Correspondence from Gaylord, G.G., Rockwell International, to Liddle, R., U.S. Department of Energy, Re: Assessment Plan for the Radioactive Materials Disposal Facility (RMDF), September 14, 1990.
- 283. Correspondence from Lang, J. C., Atomics International, to Levy, J. V., U.S. Atomic Energy Commission, re: Preliminary Report – Inhalation Incident at Santa Susana, January 24, 1961.
- 284. Correspondence from Lee, M., The Boeing Company, to Richards, A., U.S. Department of Energy, Reference: DE-AC03-99SF21530, Environmental Restoration and Remediation of the former Energy Technology Engineering Center (ETEC) Site Reporting Requirements Checklist FY00 Performance Milestones 00-4, Soil and Groundwater, removal of three septic tanks, 7/30/00, September 12, 2000.
- 285. Correspondence from Lenox, A., The Boeing Company, to Evans, J., Ventura County Environmental Health Division, Reference: Building 4006 Septic Tank Abandonment, Boeing North American, Santa Susana Field Laboratory, Ventura County, California, June 14, 1999.
- 286. Correspondence from Liddle, R.H., U.S. Department of Energy, Environmental Restoration Division, to Gabler, Mark, Boeing North American, Inc., Energy Technology Engineering Center, Re: Release of Facilities for Unrestricted Non-Radiologic Use, dated April 21, 1997.
- 287. Correspondence from Lopez, J., Lopez General Engineering Contractors, Inc., to Robinson, K.S., The Boeing Company, Reference: SCTI Demolition Buildings: 4355, 4356, 4357, 4358, 4457 & Associated, May 22, 2002.
- 288. Correspondence from Lopez, M., U.S. Department of Energy National Nuclear Security Administration Service Center, to Lee, Majelle, The Boeing Company, Re: Release of Building 4654, dated February 1, 2005.

- 289. Correspondence from Ludwig, B., The Boeing Company, Environmental Protection, to Flores, J., Ventura County Air Pollution Control District, Reference: Kalina Complex Buildings 4334 and 4335 Area IV, Santa Susana Field Laboratory, dated May 5, 2003.
- 290. Correspondence from Mattera, N.L., The Boeing Company, to Brown, A., Ventura County Air Pollution Control Division, Reference: Sodium Component Test Installation (SCTI) Facility Demolition Project, Building 4392 and 4359 at the Santa Susana Field Laboratory (SSFL), April 6, 2000.
- 291. Correspondence from Mayes, R., Standard Industries, to The Boeing Company, Reference: Technical Proposal; Kalina Plan Demolition, May 8, 2003.
- 292. Correspondence from McLain, S., G.D. Heil, Inc., to Mitchell, M., The Boeing Company, Reference: ITB No. 503818, Demolition of 8 Buildings, Rocketdyne SSFL, June 8, 1999.
- 293. Correspondence from Pollman, A.P., U.S. Atomic Energy Commission, to Petersen, R.C., Atomics International, Reference: Building 013 Modifications and Improvements, SNAP, Contract AT(04-3)-701, dated October 16, 1970.
- 294. Correspondence from Ramirez, P.B., Boeing, Rocketdyne Propulsion & Power, to Laughlin, R., Ventura County Resource Management Agency Planning Division, Reference: ETEC Demolition Projects, ETEC Site, Area IV, Santa Susana Field Laboratory, June 23, 1999.
- 295. Correspondence from Remley, M. E., Atomics International, to Levy, J., U.S. Atomic Energy Commission, Re: Apparent Type B Radiation Exposure, November 5, 1965.
- 296. Correspondence from Remley, M. E., Atomics International, to Levy, J., U.S. Atomic Energy Commission, re: Type B Radiation Exposures, April 2, 1965.
- 297. Correspondence from Remley, M. E., Atomics International, to Levy, J., U.S. Atomic Energy Commission, re: Contaminated Water at the SRE, December 12, 1967.
- 298. Correspondence from Remley, M.E., Atomics International Division of Rockwell International, to Page, R.G., U.S. Atomic Energy Commission, Re: Physical Protection of Special Nuclear Materials Docket 70-25, August 16, 1974.
- 299. Correspondence from Rutherford, P.D., Rockwell International, to LeChevalier, R.R., U.S. Department of Energy, Re: Final NESHAPs Report for 1990, May 28, 1991.
- 300. Correspondence from Seward, F.A. to Nagel, W.E., Re: Request for Radioactive Material and Radiation Producing Device User Authorization for RMDF Operation, December 10, 1985.
- 301. Correspondence from Tessier, M., Rockwell International, to LeChevalier, R., United States Department of Energy, Reference: Storage Tanks at DOE Facilities in SSFL Area IV, dated December 23, 1992.
- 302. Correspondence from Tuttle, R. J., Rockwell International, to Jackson, C., Energy Research and Development Administration, re: Leakage of Radioactively Contaminated Water at SRE, August 23, 1977.
- 303. Correspondence from Tuttle, R. J., Rockwell International, to Jackson, C., Energy Research and Development Administration, re: Leakage of Radioactively Contaminated Water at SRE, October 25, 1977.
- 304. Correspondence from Tuttle, R.J., Rockwell International, to Vaille, R., U.S. Environmental Protection Agency, Re: Identification and Description of Areas Involved with Radioactive Materials at SSFL Area IV, October 2, 1989.
- 305. Correspondence from Vitkus, T.J., Oak Ridge Institute for Science and Education, to Williams, D., U.S. Department of Energy, Reference: Comments on the Final Status Survey Documentation for the Interim Storage Facility; Building T013, T019, T024, T030, and T641; the Storage Yard West of Buildings T626 and T038; and the NW Area; Santa Susana Field Laboratory, Ventura County California, January 11, 1966.
- 306. Correspondence from Wesley, D., Department of Health Services, Radiologic Health Branch, to Barnes, J., Boeing North American/Rocketdyne Division, Reference: Building 11 Release for Unrestricted Use, dated December 16, 1998.
- 307. Correspondence from Wong, G., California Department of Health Services, to Rutherford, P.D., Rockwell International Corporation, Re: Rocketdyne's Letter Dated July 8, 1995 With Attachments Concerning the Release of Buildings T029, T028, and OCY, dated December 21, 1995.
- 308. Correspondence from Wong, G., Department of Health Services, Radiologic Health Branch, to Barnes, J., Boeing North America, Inc., Reference: Boeing's Request for Concurrence in Release for Use Without Radiological Restriction, Rocketdyne Santa Susana Field Laboratory, Building T012, dated November 26, 1997.

- Current Conditions Report and Draft RCRA Facility Investigation Work Plan, Area IV Santa Susana Field Laboratory, Ventura Count y California, Part 1 – Current Conditions Report Volume 1, ICF Kaiser Engineering, October 1993, p. 4-39.
- 310. Dahl, F. C. and Tuttle, J, Final Radiological Survey Report of Building 064 Interior, ETEC Report No. SSWA-ZR-0001, January 14, 1994, pp. 9-17.
- Dahl, F. C., Post Remediation Ambient Gamma Radiological Survey of the Former Sodium Disposal Facility (T886), ETEC Report No. 886-ZR-0007, December 13, 1994, pp. 9-11.
- 312. Dahl, Farley, C., Building T654 Supplemental Final Radiological Survey Report, SSWS-AR-0011, The Boeing Company, January 20, 1999, p. 3.
- 313. Daniel, Mann, Johnson & Mendenhall, Calculations for R/A Waste & Fuel Storage Facility, Santa Susana, California, AEC Contract AT(11-1)-632, August 1958.
- 314. Daniel, Mann, Johnson & Mendenhall, R/A Waste and Fuel Storage Floor Plans, 303-022-M2, September 25, 1958.
- 315. Daniel, Mann, Johnson & Mendenhall, R/A Waste and Fuel Storage, Guard Station, 303-022-A7, September 25, 1959.
- 316. Daniel, Mann, Johnson & Mendenhall, R/A Waste and Fuel Storage, Plumbing Site Plan, General Notes & Legend, 303-022-M1, September 25, 1958.
- 317. Darcy, K., Radiation Survey Report T-034, Rockwell International, May 27, 1997, HDMSe00388913.
- 318. DE-AC03-98SF21530, Environmental Restoration and Remediation of the Former Energy Technology Engineering Center, Contract Awarded to Boeing North American, Inc., Rocketdyne Propulsion & Power, December 31, 1998, Attachment 1, Appendix 2, p. 2.
- deArrieta, J., et al., Planning Report Plutonium Materials Development Facility Building 055, Santa Susana, May 24, 1965.
- 320. Dempsey, G., Report on Environmental Samples Collected at the Rocketdyne Santa Susana Field Laboratory July 1989, , November 8, 1989, pp. 3-4.
- 321. Dempsey, G., Site visit to Santa Susana Field Laboratory Operated by Rockwell Rocketdyne, Memorandum, July 28, 1989, pp. 5-6.
- 322. Dempsey, Gregg, Email to Craig Cooper (EPA), April 6, 2011
- 323. Dempsey, Gregg, Report on Environmental Samples Collected at the Rocketdyne Santa Susana Field Laboratory, Environmental Protection Agency, Office of Radiation Programs, Las Vegas Facility, July 1989, pgs. 5-6.
- 324. Denham, R.S., Atomics International Internal Letter, re: Unusual Incident SRE January 30, 1962, February 5, 1962.
- 325. Dennison, W.F., Letter Re: Monthly Progress Report, December 1987, January 5, 1988.
- 326. Dennison, W.F., Letter Re: Monthly Progress Report, January 1989, February 8, 1989.
- 327. Dennison, W.F., Letter Re: Monthly Progress Report, June 1988, July 8, 1988.
- 328. Dennison, W.F., Letter Re: Monthly Progress Report, October 1988, November 7, 1988.
- 329. Dennison, W.F., Letter Re: Monthly Progress Report, September 1988, October 6, 1988.
- 330. Department of Energy, Real Property and Site Development Planning FY 1988-FY 1992, January 1988.
- 331. Deschamps, R., Boeing Internal Letter, Re: Incident Report, Contamination Found on Employee's Shoe, A0677, T020, 7/2/97, April 15, 1998.
- 332. Deschamps, R., The Boeing Company Internal Correspondence, Re: Incident Report No. A0680, October 20, 1997.
- 333. Description of New Conservation Yard, Boeing North American document, p. 4.
- 334. DeVita, V., Rockwell International Internal Letter Re: Application for Use, Purchase Requisition No. 43182, June 29, 1978.
- 335. DHS/RHB, Letter, "Boeing's Request for Concurrence in Release for Use Without Radiological Restriction, Rocketdyne Santa Susana Field Laboratory Building T023," from Gerard Wong (DHS/RHB) to Phil Rutherford, February 19, 1998.
- 336. Dickenson, T.C, 1997. Filters and Filtration Handbook. Elsevier Advanced Technology, New York.
- 337. Disposal of Radioactive Materials at Atomics International, Unknown Author, Unknown Date, p. 6.

- 338. Dix, T.E., Radiation Safety Committee Annual Review for 1987, N001SRR140105, Rockwell International Corporation, June 15, 1988, pgs. 9, 29.
- 339. Dix, T.E., Rockwell International Internal Letter Re: Minutes of Radiation Safety Committee Meeting with Free Electron Laser Project Concerning Use Authorization Request, March 2, 1992.
- 340. DOE, "Environmental Assessment for Cleanup and Closure of the Energy Technology Engineering Center, Final," March 2003.
- 341. DOE, Certification Docket for the Release of Building 023 at ETEC, Docket No. DOE/CD-ETEC-023, February 1997.
- 342. DOE, Letter, "Response to Letter Dated, May 23, 2007, regarding Closure of Hazardous Waste Management Units in the Radioactive Materials Handling Facility (RMHF), Boeing, Santa Susana Field Laboratory, Simi Valley, California," from T. Johnson (ETEC) to N. Riley (Boeing), June 1, 2007.
- 343. DOE, NNSA Service Center, Environmental Assessment for Cleanup and Closure of the Energy Technology and Engineering Center, Final, March 2003.
- 344. DOE/EPA Joint Interview 255, July 2010.
- 345. DOE/EPA Joint Interview 8, July 2010.
- 346. Drawing 303-027-A4, "Expansion of Non-Nuclear Mechanical Vibration and Shock Testing, Building 027 Expansion, Floor Plan, as built," 1964.
- 347. Drawing, 303-GEN-C254, "Santa Susana Facility Area Plan Inert Gas Master East," As Built to Date, February 22, 1991, Ref # PEWR 75184.
- 348. DTSC Proposed Approval of Rockwell Rocketdyne Closure Plan for Two Former Hazardous Waste Storage Areas at Rockwell, Santa Susana Field Laboratory, Fact Sheet, California Environmental Protection Agency Department of Toxic Substances Control, November 1995, pgs. 1-2.
- 349. DuBois, P. R., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE High Bay, May 17, 1961, May 31, 1961.
- 350. Ecology and Environment, Inc., Summary Review of Preliminary Assessment/Site Inspections of Rockwell International Santa Susana Field Laboratory, July 19, 1989, p. 15.
- 351. Education, October 1993, p. 6.
- 352. Eisenhut, Darrell, Letter Re: Docket No 50-375, February 22, 1983.
- 353. Eissa, E., Compliance Evaluation Inspection Report, November 14-15, 2001, Department of Toxic Substances Control, February 15, 2002.
- 354. Element Damage, Final Report, NAA-SR-4488 (suppl.), Atomics International, 1961.
- 355. Email from Gutierrez, A., Newtech Resources, to Trippeda, D.M., Boeing, Re: B1028 Site Hill Erosion Control Project, October 16, 1998.
- 356. Email from W. J. Gerritsen to P. B. Ramirez, re: Permit for Demolition of Building 4064, May 28, 1997.
- 357. Energy Research and Development Administration, Site Development Plan: 1977-1981, LR-03026, Part 1, June 1975.
- 358. Energy Systems Group, Industrial Planning Map Santa Susana Field Laboratory, May 1982.
- 359. Energy Technology Engineering Center Document No. A4CM-AR-0005, Area IV Chemical Usage Summary Report, September 30, 1994.
- 360. Energy Technology Engineering Center, Operation Plan: Hazardous Waste Management Facility, 133-AN-0001, March 3, 1991, p. 25.
- 361. Energy Technology Engineering Center, Operation Plan: Hazardous Waste Management Facility, 133-AN-0001, February 12, 1998, p.30.
- 362. Energy Technology Engineering Center, Operation Plan: Hazardous Waste Management Facility, 133-AN-0001, December 17, 1992, p. 135.
- 363. Energy Technology Engineering Center, Organic Moderated Reactor and the Sodium Graphite Reactor, at www.etec.energy.gov/History/Major-Operations/Organic-moderated.html.
- 364. Energy Technology Engineering Center, Site Consolidation Assessment, April 16, 1987.
- 365. Energy Technology Engineering Center, Site Development and Facility Utilization Planning: FY 1984-FY 1989, N-083E-A02-DV001, Rev. A, April 1984.
- 366. Energy Technology Engineering Center, Technical Site Information, Energy Technology Engineering Center (ETEC), GEN-AT-0027, Revision B, August 1993, p. b-36.

- 367. ERDA Document, LR-03026, Part 1, Site Development Plan: 1977-1981, June 1975.
- 368. Ericson, G.I., Atomics International Internal Letter, Re: Radioactive Liquid Spill at CDHC Building 020, January 12, 1965.
- 369. Ervin, Guy, et al., Occurrence Report, March 18, 1992.
- 370. ETEC Document, 029-AR-0001, "Final D&D Report for Building T029," March 28, 1996.
- 371. ETEC Document, GEN-ZR-0006, "Radiological Survey of the Old Calibration Facility Building T029," August 19, 1988.
- 372. ETEC Document, GEN-ZR-0007, "Radiological Survey of Shipping /Receiving and Old Accelerator Area-Buildings T641 and T030," August 19, 1988.
- 373. ETEC Document, GEN-ZR-0009, "Radiological Survey of the T513 Parking Lot; Old R/A Laundry Area; Plot 333; and Areas Between the SRE to RMHF, and KEWB to RMHF," August 26, 1988.
- 374. ETEC Document, GEN-ZR-0012, Radiological Survey of Buildings T373 and T375, August 8, 1988.
- 375. ETEC Document, GEN-ZR-0013, "Radiological Survey of Buildings T049, T042, T027, T032, and T025," August 26, 1988.
- 376. ETEC DOCUMENT, GEN-ZR-0015, "Executive Summary of the DOE SSFL Site Radiological Survey," October 10, 1988. Pg 19
- 377. ETEC website at: www.etec.energy.gov/History/Major-Operations/SRE.html.
- 378. ETEC, Drawing No. GEN-CA-0001, SSFL Area IV Site Map, November 11, 1992.
- 379. ETEC, Drawing No. M000-68347-01, Santa Susana Field Laboratory ETEC Site Development Map, February 12, 1987.
- 380. ETEC, GEN-ZR-0009, "Radiological Survey of the T513 Parking Lot; Old R/A Laundry Area; Plot 333; and Areas Between the SRE to RMHF, and KEWB to RMHF," August 26, 1988.
- 381. ETEC, Industrial Planning Maps, 1962 1992.
- 382. ETEC, Photo 395784, January 19, 1999.
- 383. ETEC, Radiological Survey of Building T005, GEN-ZR-0003, November 16, 1987.
- 384. ETEC, Site Consolidation Assessment, April 16, 1987.
- 385. ETEC, Technical Site Description of the Engineering Technology Engineering Center, ETEC Report No. GEN-AT-0027, Revision B, June 30, 1993, pp. b-8 b-9.
- 386. Federal Register Vol. 62, No. 195, Certification of the Radiological Condition of Building T012 at the Energy Technology Engineering Center Near Chatsworth, California, U.S. Department of Energy, Office of Environmental Restoration, October 8, 1997, pgs. 52528-52529.
- 387. Felten, L.D. Internal Letter Re: Review of L-85 Reactor-Building 093, May 19, 1972.
- 388. Fire Preplan Area IV, Building 011 and Surrounding Area (Including Bldg. 171 and 172), Unknown Author, Unknown Date.
- 389. "Fissile Material," U.S. Nuclear Regulatory Commission, http://www.nrc.gov/reading-rm/basic-ref/glossary/fissile-material.html (August 2, 2010).
- 390. Fisher, W.L., Internal Letter, re: Non-Compliance with Health Physics Recommendation, June 16, 1958.
- 391. Flora, J.W., Atomics International, KEWB Radiological Emergency Plan, January 14, 1960. HDMSP01637672
- 392. Flore, J.J., Department of Energy, Docket No. ETEC-023, Certification of the Radiological Condition of Building 023 at the Energy Technology Engineering Center Near Chatsworth, CA, March 12, 1997.
- 393. Francis, J., Contaminated Equipment Storage Bldg. 075, 303-075-S1, May 1971.
- 394. Gallegos, A. N., Disposal of Radioactive Waste Systems at Bldg 653 and Bldg 143, Rockwell International Report No. N704-DWP-990-054, April 7, 1977, pp. 3, 9-10.
- 395. Galperin, A. and Shannon, J. W., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE High Bay, 5/25/60, August 30, 1960.
- Galperin, A. Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE, 5-12-1961, May 19, 1961.
- 397. Galperin, A., Atomics International Internal Letter, re: Incident Report, CERF, 12-7-64, January 7, 1965.
- 398. Galperin, A., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE High Bay, 5/15/60, May 26, 1960.

BIBLIOGRAPHY

399. Galperin, A., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE High Bay,

	7/7/60, August 31, 1960.
400.	Garcia, E.M, NRC Rockwell International Research Reactor L-85 Inspection, December 2, 1986.
401.	Garcia, E.M., Nuclear Regulatory Commission Inspection, Rockwell International Research Reactor L-85,
	March 13, 1987.
402.	Garcia, E.M., U.S. Nuclear Regulatory Commission, Inspection Conducted September 30 through October
102.	31, 1986, December 2, 1986.
403.	Garcia, R. R. and Schwering, C. J., Environmental Monitoring Semiannual Report, January 1, 1965 to June
405.	
101	30, 1965, Atomics International, p. 12.
404.	Gardner, F.W. Rockwell International Internal Correspondence, Re: Release of Radioactivity from RMDF –
	January 1979, February 23, 1979.
405.	Gardner, F.W., Rockwell International Internal Letter, Subject: Radiological Safety Incident Report RMDF,
	February 26, 1979.
406.	Garrett, R., Radiation Survey Report, T-665, The Boeing Company, December 7, 1998, HDMSe00381320.
407.	Gavigan, F. X. et al., Reactor Safety Survey Report, SNAP Critical Assembly -5 (SCA-5), Building 012,
	February 23, 1965, pgs. 10-11.
408.	Gaylord, G., Energy Technology Engineering Center Project Progress Report Accounting Period for February
	1991, Attachment I-3, Engineering Technology Engineering Center, February 1991, p. 2.
409.	Gaylord, G., Energy Technology Engineering Center Project Progress Report Accounting Period for March
	1991, Attachment I-3, Engineering Technology Engineering Center, March 1991, p. 2.
410.	Gaylord, G., Energy Technology Engineering Center Project Progress Report Accounting Period for August
110.	1991, Attachment I-3, Engineering Technology Engineering Center, August 1991, p. 2.
411.	Gaylord, G., Energy Technology Engineering Center Project Progress Report Accounting Period for
711.	February-June 1991, August 1991, and October 1991, Radioactive Materials Disposal Facility (RMDF)
	Maintenance, Engineering Technology Engineering Center, 1991, p. 2.
410	Gaylord, G., Energy Technology Engineering Center Project Progress Report, Accounting Period for August
412.	
110	1991, Attachment I-2, p.2.
413.	Gaylord, G., Energy Technology Engineering Center Project Progress Report, Accounting Period For First
	Quarter FY93, January 26, 1993.
414.	Gaylord, G., Energy Technology Engineering Center, Project Progress Report, Accounting Period for April
	1991, April 1991.
415.	Gaylord, G., Energy Technology Engineering Center, Project Progress Report, Accounting Period for August
	1991, August 1991.
416.	Gaylord, G.G., Rockwell International Internal Letter Re: Fire Protection Appraisals for DOE Building,
	August 7, 1990.
417.	Gaylord, G.G., SFMP Weekly Reports, 1988 through 1989.
418.	Gerber, L.A., Atomics International Inter-Office Letter Re: Personnel Radiation Exposures, Incident A0522,
	March 5, 1958.
419.	Gerritsen, W.J., Boeing North America, Specification for Removal of the Building 4028 Foundation at the
	Santa Susana Field Laboratory, January 9, 1997.
420.	Ghirelli, R. P., California Regional Water Quality Control Board, Los Angeles Region, Cleanup and
	Abatement Order No. 91-061, dated April 29, 1991.
421.	Golliher, K.G. and K.G. Randen, Capabilities of the 1Mw Shield Text and Irradiation Reactor, NAA-SR-
721.	11528, Atomics International, November 10, 1965, pgs. 10-11.
422.	Golliher, K.G., Shield Text and Irradiation Reactor Operations Manual, NAA-SR-MEMO-12606, Atomics
422.	•
402	International, September 1, 1968, p. 6-12.
423.	Golliher, K.G., STIR Fuel Element Removal and Shipment – Nuclear Safety Analysis, NSA-652-240-002,
10.1	Atomics International, May 16, 1973, p. 5.
424.	Grantham, L.F., Rockwell International Internal Letter Re: Application to Use Plutonium in Radwaste
	Combustion Tests, January 21, 1975.
425.	Graves, A. W., Decontamination and Disposition Facilities Program Plan, Atomics International Report No.
	PP-704-990-002, January 23, 1975, p. 11.

- 426. Graves, A. W., Facilities Dismantling Plan for Building (D+D) T003 Hot Cave, Atomics International Report No. FDP-704-990-001, October 10, 1974, p. 2.
- 427. Graves, A.W., Hydraulic Equipment and Testing Unit, NAA-SR-MEMO-10203, SNAP Weekly Highlights for Week Ending 7-10-64, July 10, 1964.
- 428. Groundwater Resources Consultants, Inc., Assessment of Pond Sediments in R2, SRE and Perimeter Ponds at the Rockwell International Corporation Rocketdyne Division, Santa Susana Field Laboratory, Ventura County, California, Report No. 8640M-101, July 26, 1990, pp. 4-5.
- 429. Groundwater Resources Consultants, Inc., Preliminary Site Assessment Work Plan, Tank 1, Building 005, September 25, 1990. p. 2
- 430. Groundwater Resources Consultants, Inc., Results of Dewatering Pit B/056, Boeing North American, Inc., Rocketdyne Propulsion & Power, Ventura County, California, Report No. 8640M-408, July 23, 1999, pp. 4, 9.
- 431. Group 5 Central Portion of Areas III and IV RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Volume VIII – RFI Site Reports, Appendix P, United States Department of Energy Leach Fields 2, CH2M Hill, Draft in Progress November 2008, pgs. P.2-1, Table P.2-4.
- 432. Group 7 Northern Portion of Area IV RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Volume I Text, Tables, and Figures, MWH, June 2009, p. 3-9.
- 433. Gump, J.A., Building Construction and Protection Survey, Building/Facility 357/SSFL, April 23, 1987.
- 434. Gunderjahn, C.A. and Campbell, D.C., Operation of the Arc Furnace in Building 028, Santa Susana, Rockwell International, September 7, 1978.
- 435. Gutierrez, E.P., Rockwell International Internal Letter, Subject: Evaporator Fire Incident, Bldg. 021, November 8, 1974.
- 436. Guy, E., Energy Technology Engineering Center, Occurrence Report, SAN—ETEC-GENL-1997-0001, January 29, 1998.
- 437. Haley & Aldrich, Inc., Closure Plan for the Radioactive Materials Handling Facility (RMHF), October 2006, p. 2-3.
- 438. Harcombe, R., Boeing Internal Letter, Re: Incident Report, Loss of Control of Radioactive Material, A0675, T020 Parking Lot, 3/26/97, April 9, 1997.
- 439. Harcombe, Richard, Internal Letter Re: Radiological Incident Report A0664, August 25, 1995.
- 440. Harris, J. and Badger, F., Rockwell International Internal Letter, Re: Conservation Yard Spill, February 6, 1976.
- 441. Harris, J. and F. Badger, Internal Letter, Conservation Yard Spill, Rockwell International, February 6, 1976,
- 442. Harris, J. M., SGR Liquid Holdup Tank Decontamination and Decommissioning, T009, Rockwell International Report No. N001DWP000025, August 1, 1989, pp. 3, 14.
- 443. Harris, J.M., RMDF Leach Field Soil Removal Detailed Working Plan, N704DWP990-022, Rockwell International, January 11, 1977.
- 444. Hart, R. S., Distribution of Fission Product Contamination in the SRE, Atomics International Report No. NAA-SR-6890, March 1, 1962, pp. 8-27.
- 445. Health and Safety Department, Atomics International Internal Letter, re: Notice of Health and Safety Rule Infraction, November 8, 1961.
- 446. Health and Safety Department, Atomics International Internal Letter, re: Notice of Health and Safety Rule Infraction, January 4, 1962.
- 447. Health and Safety Department, Atomics International Internal Letter, re: Notice of Health and Safety Rule Infraction, February 16, 1962.
- 448. Health and Safety Department, Atomics International Internal Letter, re: Notice of Health and Safety Rule Infraction, February 7, 1962.
- 449. Health and Safety Division, Chicago Operations Office, Reactor Safety Survey Report, Shield Test and Irradiation Reactor (STIR), Atomics International, February 16-17, 1966, p. 5.
- 450. Health and Safety, Rockwell International Internal Letter, re: Radiation Incident While Moving the Cold Trap into the Alcohol Passivation Tank at SRE, August 1, 1977.

- 451. Health Physics Department, Atomics International Internal Letter, re: Health Physics Notice of Rule Infraction, February 13, 1960.
- 452. Health Physics, Atomics International Internal Letter, re: Notice of Radiological or Industrial Safety Rule Infraction, August 12, 1960.
- 453. Heine, W., Authorization No. 84, January 16, 1975.
- 454. Heine, W.F., Atomics International Internal Letter, Re: Radioactive Spill at CDHC Bldg. 20 Santa Susana, June 13, 1962.
- 455. Heine, W.F., Atomics International, Preliminary Draft Radiation Engineering Analysis: Radiation Safety Analysis, April 27, 1966. HDMSP001852876.
- 456. Heine, W.F., Internal Letter Re: Radiography Incident Report A-0299, April 2, 1971.
- 457. Heine, W.F., North American Rockwell Internal Letter Re: Operational Safety Unit Weekly Highlights Week Ending 4/9/71, April 13, 1971.
- 458. Heneveld, W.H., NSA-652-160-001 Transfer of SNAP 10A FS-5 from Bldg 019 to Bldg 024, December 13, 1972, HDMSP001856104.
- 459. Henock, W.W., Nuclear Operations Department Technical Progress Report July 1965, August 26, 1965.
- 460. Hetzler, D.K., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE Sodium Service Vault, 3/12/60, March 30, 1960.
- 461. Hickey, E.C., Atomics International Inter-Office Letter Re: Radiation Exposure, Incident A0504, August 1, 1961.
- 462. Historical Review of Underground Tanks, Area IV, No.: A4CM-AR-0005, Unknown Corporate Author, August 10, 1994, P. 89.
- 463. Historical Site Photograph from Boeing Database, February 12, 1975.
- 464. Horton, P., Appendix A, Building Reconnaissance Report, Building 026, GEN-??-0000, September 30, 1996.
- 465. Horton, P.H., Letter Re: Renewal of Use Authorization No. 115, February 20, 1986.
- 466. Horton, P.H., Modification of RMDF, Building 4021 Sump, N001T1000276, Rockwell International, July 16, 1987.
- 467. http://www.etec.energy.gov/History/Area-IV-History.html
- 468. Huber, D.A., Atomics International Technical Data Record, Advanced OMR, Convective Heat Transfer, June 24, 1960.
- 469. ICF Kaiser Engineers, Current Conditions Report and Draft RCRA Facility Investigation Work Plan, Area IV, Santa Susana Field Laboratory, Ventura County, California, Part 1- Current Conditions Report, Volume 1, October 1993, p. 4-40.
- 470. Illegible Author, Atomics International Internal Letter, re: Radiological Safety Incident Report, Room 160 ETB Annex, July 22, 1960, July 27, 1960.
- 471. Incident Report, dated November 4, 1981 (BNA05615738-744).
- 472. Incomplete Document regarding "North American Aviation Inc., Atomics International Involvement in Atomic Energy Research and Development since 1946," Date unknown.
- 473. Internal Correspondence from Author, D.W., to Hoffman, N.J., Re: SSFL Area IV Site Characterization Plan, June 17, 1993.
- 474. Internal Correspondence from Badger, F.H. to McCurnin, Jr., W.R., Rockwell International, Re: Radioactive Spills in RMDF, October 17, 1975.
- 475. Internal Correspondence from Badger, F.H. to Radiation & Nuclear Safety Group, Rockwell International, Re: Radiological Safety Incident Report, T-356 SCTI, May 11, 1985, May 15, 1985.
- 476. Internal Correspondence from Badger, F.H., to Tuttle, R.J., Rockwell International, Re: Summary of RMDF Leach Field Assessment, November 3, 1976.
- 477. Internal Correspondence from Barnes, J. to Rutherford, P., Rockwell International, Re: First Quarter, 1991 ALARA Report, August 8, 1991.
- 478. Internal Correspondence from Barnes, J. to Use Authorization File, Boeing, Re: Termination of Use Authorization 33, September 19, 2001.
- 479. Internal correspondence from Barnes, J., to Sitlington, S., Rockwell International Corporation, Reference: Request of Use of SSFL Building 171, January 6, 1993.

- 480. Internal Correspondence from Barnes, J.G. to Logan, A.B., Rockwell International, Re: Notification for Renewal of Authorization for Use of Radioactive Materials or Radiation Producing Devices Second Notice, March 3, 1994.
- 481. Internal Correspondence from Begley, F.E., to R.J. Tuttle, Rockwell International, Re: Unconditional Release of Building T724 for Unrestricted Use, January 18, 1978.
- 482. Internal Correspondence from Bresson, J.F. to Heine, W.F., North American Rockwell Corporation, Reference: Inspection of Santa Susana Radiographic Installation, April 18, 1969.
- 483. Internal correspondence from Bunch, D.F. to Alexander, R.E., Atomics International, a Division of North American Aviation, Inc., Reference: Emergency Preparedness Meeting with SAN Personnel, dated January 25, 1968.
- 484. Internal Correspondence from Burgess, D.D. to Isotope Committee Chairman, Rockwell International, Re: Application for Renewal of Authorization for Use of Radioactive Materials No. 108C, June 8, 1981.
- 485. Internal Correspondence from Chapman, J.A. to Tuttle, R.J., Rockwell International, Re: RMDF Leach Field: Soil Samples Collected in the General Vicinity, May 17, 1989, May 24, 1989.
- 486. Internal correspondence from Christy, Lt. T.L. to Greenwell, Capt., W.I., Rockwell International, Reference: Hazardous Material Spill, Sulfuric Acid, Bldg. 355 Area of SCTI, Santa Susana Facility, September 27, 1988.
- 487. Internal Correspondence from Compact Reactors Committee to Balent, R., North American Aviation, Re: STIR Survey Recommendation and Minutes of Meeting of December 31, 1963, January 31, 1964.
- 488. Internal Correspondence from Copeland, A.A. to Carpenter G.D., Atomics International, Re: Status Report on Analysis of Samples Resulting from the Incident at SER in April, 1961, June 27, 1961.
- 489. Internal Correspondence from Dix, T.E. to Rutherford, P.D., Rockwell International, Re: Status of Use Authorization 18, March 10, 1993.
- 490. Internal correspondence from Donnelly, C.W. to Heine, W.F., Rockwell International, Reference: Application – Authorization to Perform X-Radiography in Building 172, Nuclear Development (NDFL) Field Laboratory, Santa Susana, dated February 25, 1974. [This supersedes similar letters dated June 4, 1973 and August 8, 1973.]
- 491. Internal Correspondence from Durand, R.E. and Royden, H.N. to Ashley, R.L., Atomics International, Re: Report of Subcommittee Survey of STIR – August 15, 1967, August 30, 1967.
- 492. Internal Correspondence from Ehrlich, S. to Hartzler, R., Atomics International, Re: RMDF Incinerator, Building 664 Santa Susana Acceptance Text Report, Subsequent Work, and Miscellaneous Comments PEWR 72515, January 31, 1967.
- 493. Internal Correspondence from Frazier, R.S. to Mountford, L.A., Rockwell International, Re: Request for Radioactive Material and Radiation-Producing Device User Authorization Number 106A for RMDF Operation, November 26, 1979.
- 494. Internal Correspondence from Grushesky, E.R. to Breese, L.S., Rockwell International, Re: Annual Safety Inspection Department 731, Buildings 143, 003, 034, 044, 688, 665, 664, 021, and 022, May 19, 1977.
- 495. Internal Correspondence from Harris, J.M. to McCurnin, W.R., Rockwell International, Re: Plan of Action for RMDF, November 18, 1975.
- 496. Internal Correspondence from Heine, W.F. to Remley, M.E., North American Rockwell, Reference: Operational Safety and Waste Management Unit Weekly Highlights – Week Ending May 5, 1973, May 11, 1973, p. 2.
- 497. Internal Correspondence from Heneveld, W.H. to Schaubert, V.J., North American Rockwell, Reference: SS Material Control for Bldg 012, March 30, 1971, pgs. 3-4.
- 498. Internal Correspondence from Horton, P.H. to Gaylord, G.G., Rockwell International, Re: Responses to Questions of RMDF Operations, March 16, 1990.
- 499. Internal Correspondence from Horton, P.H. to Nagel, W.E., Rockwell International, Re: Request for Radioactive Maderail [sic] and Radiation Producing Device User Authorization for RMDF Operations, December 13, 1989.
- 500. Internal correspondence from Ingersoll, R.D. to DeBear, W.S., Rockwell International, Reference: Notification Unreported Underground Tank, Rocketdyne Facilities Engineering Environmental Tasks, dated December 22, 1993.

- 501. Internal correspondence from Ingersoll, R.D., Rockwell to Gaylord, G.G., Rockwell International, Reference: Removal Plan - Underground Water Storage Tank, Building 019, dated October 13, 1994.
- 502. Internal Correspondence from Johnson L., Rockwell International, to Heine, W.F., Re: Final Radiation Survey Building T-028, dated May 10, 1976.
- 503. Internal correspondence from Lafflam, S.R. to Keller, J.H., Rockwell International, Reference: Environmental Weekly Activity Report, December 1, 1987.
- 504. Internal correspondence from Lenox, A.J. to Ingersoll, R., Rockwell International, Reference: Building 19 Underground Storage Tank, dated July 12, 1994.
- 505. Internal Correspondence from Matten, K.L. to Fuel Committee Members, Atomics International, Re: Inspection Tour of Santa Susana Fuel Storage Areas, April 23, 1964.
- 506. Internal Correspondence from McCurnin, W.R. to Radiation Safety Committee, Rockwell International, Re: Modification to RMDF Use Authorization, June 26, 1989.
- 507. Internal Correspondence from McCurnin, W.R. to Walter, J.H., Re: Highlights Week Ending 09-24-82, September 24, 1982.
- 508. Internal Correspondence from McGinnis, E.R. to Rowles, J.A., Rockwell International, Re: Quarterly Radioisotope Inventory Verification, February 22, 1989.
- 509. Internal Correspondence from Moore, J.D. to Radiation Safety Committee, Rockwell International, Re: Request for Amendment to Authorization No. 124, April 13, 1989.
- 510. Internal Correspondence from Moore, J.D. to Remley M.E., Rockwell International, Re: Quarterly Review of the RMDF for Radiation Safety, First Calendar Quarter, 1987, June 22, 1987.
- 511. Internal Correspondence from Moore, J.D. to Remley, M.E., Rockwell International, Re: Quarterly Review of the RMDF for Radiation Safety Fourth Calendar Quarter, 1987, March 25, 1988.
- 512. Internal Correspondence from Moore, J.D. to Remley, M.E., Rockwell International, Re: Quarterly Review of the RMDF for Radiation Safety, Third Calendar Quarter, 1986, December 15, 1986.
- 513. Internal Correspondence from Moore, J.D. to Remley, M.E., Rockwell International, Re: Quarterly Review of the RMDF (T022) for Radiation Safety, Second Calendar Quarter, 1985, September 18, 1985.
- 514. Internal Correspondence from Moore, J.D. to Remley, M.E., Rockwell International, Re: Quarterly Review of the RMDF for Radiation Safety, First Calendar Quarter, 1986, June 23, 1986.
- 515. Internal Correspondence from Moore, J.D. to Remley, M.E., Rockwell International, Re: Quarterly Review of the RMDF (T022) for Radiation Safety, First Calendar Quarter, 1985, May 29, 1985.
- 516. Internal correspondence from Moore, J.D., to Heine, W.F., North American Rockwell, Reference: Radiation Survey at X-Ray Building T172, February 28, 1973.
- 517. Internal Correspondence from Moore, J.D., to Hill, R.M. Atomics International, Re: Environmental Survey Report, Building 022, Santa Susana Area, January 26, 1966.
- 518. Internal Correspondence from Owens, D.E. to Radiation & Nuclear Safety Energy Systems Group, Rockwell International, Re: Radiological Safety Incident Report, RMDF, October 23, 1979, dated October 29, 1979.
- 519. Internal Correspondence from Page, J.P. to Roberts, W.J., Rockwell International, Re: Engineering Development & Text Highlites Week Ending 9/24/82, September, 27, 1982.
- 520. Internal Correspondence from Peko, D. to McCurnin, W.R., Rockwell International, Re: Radioactive Materials Disposal Facility Assessment Plan, May 22, 1990.
- 521. Internal Correspondence from Reactor Fuels Committee to Balent, R. et al., Atomics International, Re: Tour and Inspection of AI Fuel Storage Facility Minutes of Meeting of May 4, 1964, May 14, 1964.
- 522. Internal Correspondence from Rowles, J. to Bulthuis, R., Rockwell International, Re: Termination of Authorization 133, May 9, 1991. This letter references a Th-170 source; however, no such isotope of thorium exists. The known isotopes of thorium range in mass number from 209 to 238. This reference may have meant thulium-170 (Tm-170).
- 523. Internal Correspondence from Rowles, J.A. to Nagel, W.E., Rockwell International, Re: Renewal of Authorization 125, August 25, 1988.
- 524. Internal Correspondence from Rutherford, P. and Trippeda, D. to Sujata, B., The Boeing Company, Re: Contract DE-AC03-99SF21530 RMHF Slop Remediation, June 9, 2006.
- 525. Internal Correspondence from Rutherford, P.D. to Klee, S.M., Rockwell International, Re: Shipment of Radioactive Materials Under Use Authorization 75, July 27, 1993.

- 526. Internal Correspondence from Schlapp, F.W. to All P.E.s, R.E., and Supervision, Atomics International, Re: Segregation of Radioactive (R/A) Wastes, September 18, 1964.
- 527. Internal Correspondence from Schmidt, F.G. to Moore, J.D., Rockwell International, Re: Retirement of User Authorization No. 108 Uranium Melt Facility T028, September 20, 1989.
- 528. Internal Correspondence from Schrag, F.C. to McCurnin, W.R., Rockwell International, Re: Highlights, Week Ending December 11, 1987, December 14, 1987.
- 529. Internal correspondence from Shao, J. to Rutherford, P., The Boeing Company, Reference: 17th Street Drainage Area Radiation Characterization Surveys and Excavation, SHEA-016779, January 18, 1999. [Note this letter can also be found as Appendix D in RS-00009 above.]
- 530. Internal Correspondence from Stelman, D. to Nagel, W.E., Rockwell International, Re: Transfer of Authorization 107 from Active to Storage Status, February 6, 1989.
- 531. Internal Correspondence from Tschaeche, A.N. to Schaubert, V.J., Atomics International, Re: Transfer of Custody of Radioactive Material, August 26, 1965.
- 532. Internal Correspondence from Tuttle, R.J. to Breese, L.S. and Walter, J.H., Rockwell International, Re: RMDF Liquid R/A Waste Holdup Tank, July 27, 1978.
- 533. Internal Correspondence from Tuttle, R.J. to Francis, M.A., Rockwell International, Re: Sources of Radioactively Contaminated Water at Santa Susana, February 17, 1981, p. 2.
- 534. Internal Correspondence from Tuttle, R.J. to Rutherford, P.D., Rockwell International, Re: Disposal of Potentially Contaminated Wash Water at T133, June 3, 1993.
- 535. Internal Correspondence from Tuttle, R.J. to Those Listed, Rockwell International, Re: Status Review RMDF Leach Field, September 1978, October 4, 1978.
- 536. Internal Correspondence from Vetter, M.B. to Moore, J.D., Rockwell International, Re: DOS Hepa Filter Test, Bldg. 028, ESG-SSFL, September 20, 1983.
- 537. Internal Correspondence from Vetter, M.B. to Moore, J.D., Rockwell International, Re: Annual DOS Test of Bldg. 028, ESG-SSFL, September 25, 1984.
- 538. Internal Correspondence from Wilmes, R. to Lang, J., Atomics International, a Division of North American Aviation, Inc., Reference: Monthly Progress Report for Industrial Hygiene and Safety, Santa Susana, Period Ended May 29, 1965, dated June 2, 1965, p. 3.
- 539. Internal Email from Rutherford, P. to Marshall, R., The Boeing Company, Re: Radioactive Material Handling Facility (RMHF) Catch Basin Alarms, Santa Susana Field Laboratory, February 13, 2003.
- 540. Internal Email from Rutherford, P. to Trippeda, D., The Boeing Company, Re: RMHF Slope, April 24, 2006.
- 541. Internal letter from P. D. Rutherford to G. E. Shindler, Boeing North American, Inc., re: Radiological Status of Building T040 (4040), April 29, 1997.
- 542. Internal letter from V. J. Schaubert to F. W. Schlapp, Re: OMR Irradiated Fuel Shipment to Savannah River, dated June 24, 1966.
- 543. Internal Memorandum from Robison, S.A., U.S. Department of Energy (DOE) Office of Northwestern Area Programs, Environmental Restoration, to Liddle R., DOE Oakland Operations Office, Re: Release of Decontaminated Building 028 without Radiological Restrictions at the Energy Technology Engineering Center, dated April 2, 1997.
- 544. International Report, N704SRR9900124, Plutonium Concentrations in Soil around Drain Lines at NMDF, April 3, 1986.
- 545. International, Rocketdyne Division, August 8, 1988, pgs. 9, 17, 22, 24, 26, 31, 35, 109-114, 119-120.
- 546. Inter-office letter from J. Borg and E. J. Marcotte to W. L. Fisher, re: Steam Clean Pad Incident, June 2, 1960.
- 547. Interview No. 101 conducted by DOE in 2010.
- 548. Interview No. 106 of former employee conducted by the U.S. DOE and EPA, September 2010.
- 549. Interview No. 107 conducted by DOE and EPA on July 6, 2010.
- 550. Interview No. 107 of former employee conducted by the U.S. DOE and EPA, September 2010.
- 551. Interview No. 110 of former employee conducted by the U.S. DOE, September 2010.
- 552. Interview No. 117 of former worker conducted by the DOE, September 2010.
- 553. Interview No. 12 conducted by EPA in 2009.
- 554. Interview No. 135 conducted by DOE in 2010.
- 555. Interview No. 15 conducted by EPA on November 10, 2009.

- 556. Interview No. 154 of former employee conducted by the U.S. DOE and EPA, September 2010.
- 557. Interview No. 155 conducted by DOE in 2010.
- 558. Interview No. 18 conducted by DOE in 2010.
- 559. Interview No. 188 of former employee conducted by the U.S.DOE, September 2010.
- 560. Interview No. 195 conducted by DOE in 2010.
- 561. Interview No. 196 of former employee conducted by the U.S. DOE, September 2010.
- 562. Interview No. 2 of former employee conducted by the EPA only, September 2010.
- 563. Interview No. 203 conducted by DOE in 2010.
- 564. Interview No. 206 of former worker conducted by the DOE, September 2010.
- 565. Interview No. 207 of former employee conducted by the EPA only, September 2010.
- 566. Interview No. 222 conducted by DOE in 2010.
- 567. Interview No. 223 conducted by DOE in 2010.
- 568. Interview No. 254 conducted by DOE and EPA on July 20, 2010.
- 569. Interview No. 254 of former employee conducted by the DOE and EPA, September 2010.
- 570. Interview No. 255 conducted by DOE and EPA Joint Interview on July 9, 2010.
- 571. Interview No. 255 of former worker conducted by the DOE and EPA, September 2010.
- 572. Interview No. 269 conducted by DOE in 2010.
- 573. Interview No. 270 of former worker conducted by the DOE, September 2010.
- 574. Interview No. 277 of former employee conducted by the U.S. DOE, September 2010.
- 575. Interview No. 279 conducted by DOE in 2010.
- 576. Interview No. 287 of former employee conducted by the U.S.DOE, September 2010.
- 577. Interview No. 288 of former employee conducted by the U.S. DOE, September 2010.
- 578. Interview No. 290 conducted by DOE in 2010.
- 579. Interview No. 290 of former employee conducted by the U.S. DOE, September 2010.
- 580. Interview No. 296 of former worker conducted by the DOE, September 2010.
- 581. Interview No. 3 conducted by DOE and EPA on March 16, 2010.
- 582. Interview No. 3 of former employee conducted by the EPA, September 2010.
- 583. Interview No. 30 of former employee conducted by the DOE and EPA, September 2010.
- 584. Interview No. 300 of former employee conducted by the U.S. DOE and EPA, September 2010.
- 585. Interview No. 300 of former worker conducted by the DOE and EPA on July 16, 2010, p. 2.
- 586. Interview No. 419 conducted by DOE in 2010.
- 587. Interview No. 427 conducted by DOE in 2010.
- 588. Interview No. 45 of former employee conducted by the DOE and EPA, September 2010.
- 589. Interview No. 5 conducted by EPA on August 23, 2010.
- 590. Interview No. 57 of former employee conducted by the U.S. DOE and EPA, September 2010.
- 591. Interview No. 63 of former worker conducted by the DOE, September 2010.
- 592. Interview No. 7 conducted by EPA on August 31, 2010.
- 593. Interview No. 78 of former employee conducted by the U.S. DOE and EPA, September 2010.
- 594. Interview No. 8 conducted by DOE and EPA on July 14, 2010.
- 595. Interview No. 8 of former employee conducted by the DOE and EPA, September 2010.
- 596. Interview No. 90 conducted by DOE in 2010.
- 597. Interview Notes of interview with D. Trippeda conducted by S. Valenzuela, June 14, 2007.
- 598. Investigating Board, Atomics International Internal Letter, re: SRE Wash Cell Incident of June 4, 1959, June 19, 1959.
- 599. Isotope Committee Chairman, Authorization for Use of Radioactive Materials or Radiation Producing Device, Authorization Nos. 33E-33H, 33J, 33L-33O, 33S, April 16, 1976 through March 26, 1990.
- 600. Isotope Committee Chairman, Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization Nos. 106D, 106F-106M, Rockwell International, December 18, 1981 through February 12, 1992.
- 601. Jackson, K., Rockwell International Internal Letter Re: Chemicals for Building 055, September 18, 1991
- 602. Jaquay, K., Final Report Decontamination and Dismantlement Operations at SSFL Building 4019 for Release Without Radiological Restrictions, The Boeing Company, September 11, 1999, p. 16.

- 603. Jarrett, A. A. and Roth, J. N., Quarterly Progress Report, January, February, March 1956, Atomics International, May 8, 1956, pp. 1-2.
- 604. Jarrett, A.A., Letter Re: Expanded Use of Building 373, March 30, 1960.
- 605. Jassak, R., Sodium Components Test Installation Fuel Oil Storage and Distribution System Demolition and Waste Minimization Study, Rockwell International Report No. 355-XT-0126, February 18, 1998, pp. 7, 20.
- 606. Job B (B4039, B4032, and B4042) Statement of Work, Flysheet ETEC PB 02-009, March 3, 2003.
- 607. Johnson, B., "Brandeis-Bardin settles Rocketdyne suit," in Thousand Oaks Star, May 23, 1997, p. 1.
- 608. Johnson, B.I., Internal Letter Re: Radiation Survey of the AE-6 Reactor, Building 093, August 13, 1970.
- 609. Johnson, R., Safety Analysis Report for Lithium Hydride Disposal Facility B133, 133-ZR0001, Energy Technology Engineering Center, March 2, 1989, p. 3.
- 610. Johnson, R.P. and Speed, D.L., Interim Storage Facility Decommissioning Final Report, ESG-DOE-13507, Rockwell International, Rocketdyne Division, March 15, 1985, pgs. 1, 3.
- 611. Johnson, R.P. et al., SNAP Shield Test Experiment Preliminary Operations Manual, NAA-SR-5897, Atomics International, May 8, 1961, p. 13.
- 612. Johnson, T., "Action Memorandum for the Decommissioning of the System for Nuclear Auxiliary Power Environmental Test Facility, Building 4024, at the Energy Technology Engineering Center at Santa Susana Field Laboratory, California," May 1, 2007.
- 613. Jones, L.J., Atomics International Document No. OP-001-99-001, Plutonium Facility, Facility Emergency Plan for NMDF SS 55, June 18, 1969.
- 614. Kalina Demolition Trucking Forms, July 2003 November 2003, HDMSP00039841 HDMSP00040025.
- 615. Kapel, Ben R., Memorandum regarding Building 4005 and Amendment 90 to License 0015-70, April 5, 1995.
- 616. Kartman, A.S., Aerial Photographic Analysis of Santa Susana Field Laboratory Area IV, Ventura County, California, Volume 1 & 2, U.S. Environmental Protection Agency, Office of Research and Development, Environmental Sciences Division, March 2010.
- 617. Kearns, Roy, Memorandum Re: Validation of Rocketdyne Transuranic Waste Data, April 18, 1994.
- 618. Kellogg, L.G., Letter Re: Monthly Progress Report, October 1987, November 6, 1987.
- 619. Keshishian, V., Letter Re: Use Application for the Use of Cs-137 Source and a Pu-Be Neutron Source in Bldg. 24 in Santa Susana Facility, August 3, 1971.
- 620. Ketzlach, N., Internal Letter Re: New MBA for SNAP 10FS-5 Storage, January 30, 1973. HDMSP001840067.
- 621. Kinzer, J. and Crawford, A. C., SRE First Core Fuel, Atomics International Technical Data Record No. 5301, May 16, 1960, pp. 1-7.
- 622. Klein, A., Basis for Radiological Determination of No DOE-Added Radioactivity at the Former Sodium Disposal Facility, Energy Technology Engineering Center (ETEC) Report No. 886-XT-0002, December 3, 1992, p. 3.
- 623. Klein, A., Building T028 Decontamination and Demolition Final Report, N001T1000322, Rockwell International, June 6, 1990, pgs. 3-6.
- 624. Klein, A., Final Report for Decontamination and Decommissioning of Former Sodium Disposal Facility (FSDF) B4886, Boeing Report No. EID-04628, November 17, 1999, pp. 9-10.
- 625. Klostermann, J. P., Atomics International Internal Letter, re: Radiological Safety Incident Report, R/A Material Storage Area SRE, 12/15/60, December 19, 1960.
- 626. Klostermann, J.P., Radiological Safety Incident Report, Bldg. #11 (West Side), Atomics International, April 28, 1960.
- 627. Klostermann, J.P., Rockwell International Internal Letter Re: Gammagraph Source Incident Building T032, April 24, 1974.
- 628. Kneff, D. W., Tuttle, R. J., and Subbraman, G., Radiological Assessment of the Building T064 Fenced-in Yard, Rockwell International, N704SRR990035, January 12, 1994, pp. 10, 40-41.
- 629. Kneff, D.W. and R.D. Meyer, Radioactive Materials Handling Facility (RMHF) Demolition Program Management Plan, PMP-00008, The Boeing Company, January 30, 2004, p. 11.
- 630. Kneff, D.W. and R.D. Meyer, Radioactive Materials Handling Facility (RMHF) Demolition Program Management Plan, PMP-00008, The Boeing Company, February 4, 2004, p. 10.

- 631. Kneff, D.W. et al., Sodium Component Test Installation (SCTI) Demolition Final Report, EID-08336, The Boeing Company, October 1, 2003, pgs. 8-9.
- 632. Knudsen, K.T., Safety Analysis Document Building 133 Hazardous Waste Management Facility, 133-ZR-0003, Rev. C, Energy Technology Engineering Center, June 28, 1991, Revised April 1, 1996, p. 5.
- 633. Kocul, Henry, and Lupo, Roger, Confirmation Survey of Building T363, July 30, 1996.
- 634. Lafflam, S.R., Letter Re: Buildings 028 and 374, Area IV SSFL Asbestos Removal and Demolition, May 2, 1989.
- 635. Lafflam, S.R., Rockwell International letter Re: Building 353, Area IV SSFL Asbestos Removal, January 6, 1989.
- 636. Lafflam, Steve, Letter Re: Building Demolition and Disposal at SSFL, April 11, 2000.
- 637. Lahs, W.R., Atomics International Document SRR-696-13-001, Review of SNAP Critical Facility Safety Analysis Report – Addendum for SCA-4A Operation: Recommendations and Minutes of Meeting held December 30, 1969, January 13, 1970.
- 638. Lancet, R.T., Letter Re: DOE Authority for Release of Certain Facilities at SSFL, January 11, 1990.
- 639. Lane, W. D., Atomics International Internal Letter, re: Radiological Incident Report, SRE High Bay, 6/9/60, July 20, 1960.
- 640. Lane, W., H.P Log RMDF, A0588, December 29, 1965.
- 641. Lane, W.D., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE Sodium Service Vault, 4/10/61, April 28, 1961.
- 642. Lane, W.D., North American Aviation, Inc. Internal Letter, Re: Decontamination of R/A Holding Area at CDHC, July 2, 1963.
- 643. Lane, W.D., North American Rockwell Internal Letter Re: Water Leak at the NMDF, January 14, 1971.
- 644. Lang, J. C., Atomics International Internal Letter, re: Notice of Rule Infraction, December 31, 1959.
- 645. Lang, J.C., Atomics International Internal Letter Re: Health and Safety Section Monthly Progress Report Period Ending August 4, 1965, August 6, 1965.
- 646. Lang, J.F., Rockwell International Document No. N001T1000188, Interim Storage Facility Decommissioning Plan, June 28, 1983.
- 647. Lang, J.F., Rockwell International Internal Letter Re: Renewal of Use Authorization No. 115, February 21, 1980.
- 648. Lang, J.F., Rockwell International Internal Letter Re: Renewal of Use Authorization No. 115, February 22, 1982.
- 649. Lavagnino, G., ETEC Meeting and Site Visit, U.S. Department of Energy, August 17, 1988.
- 650. Lee, Majelle, Letter Re: Contract No. DE-AC03-99SF21530, Notification of Completion of GFY 2004 Contract Milestone "Demolish Buildings 4027, 4487 and 4641 per Multi-Year Work Plan 1st and 2nd Quarter GFY2004, RD01-269-03," March 22, 2004.
- 651. Lenox, A., SHEA Building Demolition Assessment Checklist (Refer to Demo Team Scope of Work), The Boeing Company, April 3, 2000.
- 652. Letter from A. Lenox, Boeing Corporation, to D. Salter, Ventura County Environmental Health Division, Re: Closure Request Former Tank UT-3, dated November 19, 1998.
- 653. Letter from B. D. Sujata, The Boeing Company, to J. Evans, County of Ventura, re: Information Regarding Permit Septic Tank and Leach Field, October 23, 2001.
- 654. Letter from Brook, H.E., NRC, to Remley, M.E., NRC Inspection of Rockwell International's FCEL Inspection, dated July 11, 1980.
- 655. Letter from D. Wesley, California, Department of Health Services, to J. G. Barnes, Boeing North American/Rocketdyne Division, Re: releasing Buildings 4009 and 4020 for unrestricted use, dated January 20, 1999.
- 656. Letter from F.J. Miraglia (NRC) to M.E. Remley, "Order Terminating Facility License R-118, for the Rockwell International L-85 Nuclear Examination Reactor," April 8, 1987.
- 657. Letter from Frank Wenslawski (NRC Region V) to Herbert Berkow, Closeout Inspection for Rockwell International L-85 Reactor, Docket No. 50-375, March 19, 1987.
- 658. Letter from Heine, W. F., Atomics International, to Proctor, J. F., E. I. du Pont de Nemours & Company, re: Fission Product and Fissile Content of SRE Fuel, July 2, 1975.

- 659. Letter from J. A. Vidal, Robert Stone & Associates, Inc., to L. S. Breese, Rockwell International Corporation, Re: Foundation Investigation, June 23, 1982, pp. 1-2.
- 660. Letter from J. E. Ross, California Regional Water Quality Control Board, to S. R. Lafflam, Rockwell International Corporation, re: SRE Pond Modification, December 3, 1990.
- 661. Letter from J. T. Crone, Rockwell International, to J. Ross, California Regional Water Quality Control Board, re: SRE Pond Modifications, December 4, 1990.
- 662. Letter from M. E. Remley, Atomics International, to J. V. Levy, U.S. Atomic Energy Commission, Re: Reactor Operating Limits for Sodium Graphite Reactor Critical Facility in Building 4009, November 4, 1964.
- 663. Letter from M. Lee, The Boeing Company, to R. Lupo, California Department of Health Services, May 12, 2000.
- 664. Letter from N. L. Mattera, The Boeing Company, to A. Brown, Ventura County Air Pollution Control District, March 3, 1999.
- 665. Letter from P. B. Ramirez, Boeing North American, Inc., to R. Laughlin, County of Ventura, re: Building 4320 and Tanks Demolition Project, February 22, 1999.
- 666. Letter from P. B. Ramirez, Rockwell International, to K. Scoles, County of Ventura, Resource Management Agency, Re: Sodium Disposal Facility Closure, Area IV, Santa Susana Field Laboratory, dated August 31, 1992.
- 667. Letter from P. Rutherford, Boeing Corporation, to P. Baldenweg, California Department of Health Services, Re: Building 009 Survey Sampling Data, License 0015-19, dated August 19, 1998.
- 668. Letter from P. Rutherford, Rockwell International, to B. Kapel, California Department of Health Services, Re: Request for Release of Building 009 for Unrestricted Use and Approval to Dispose of Concrete from Building 009 – License 0015-70, dated October 26, 1995.
- 669. Letter from P. Rutherford, The Boeing Company, to S. Hsu, Department of Health Services, re: Request for Approval to Ship Soil from SRE to a Landfill, September 25, 2001.
- 670. Letter from R. L. Kistner, Rockwell International, to Ventura County Air Pollution Control District, Re: Tenant Improvements Building 009 in Area IV Santa Susana Field Laboratory, May 11, 1995.
- 671. Letter from R. P. Ghirelli, California Regional Water Quality Control Board, to S. R. Lafflam, Rockwell International, Re: Closure of Surface Impoundment in Area IV, Former Sodium Disposal Facility B/886 Lower Pond, dated December 29, 1992.
- 672. Letter from R.K. Owen (Rockwell International) to R.J. Tuttle, "Radiation Survey T073 (KEWB) Site," July 17, 1975.
- 673. Letter from Reid, R.W., NRC, to Remley, M.E. re Docket No. 50-147, dated October 1, 1980.
- 674. Letter from S. Lafflam, Boeing North American, Inc., to A. Mars, Brandeis-Bardin Institute, Re: Boeing North American Offer to Purchase 175 Acres of Institute Property, February 20, 1997.
- 675. Letter from S. McLain, G. D. Heil, Inc., to M. Mitchell, Boeing Company, dated June 8, 1999.
- 676. Letter from S. R. Stamp, U.S. Energy Research and Development Administration, to W.F. Heine, Atomics International, March 3, 1976.
- 677. "License for Radiography and Radiation Safety Requirements for Radiographic Operators," 10 C.F.R. §§ 34.3 and 34.43, 2010.
- 678. Liddle, Roger, DOE, Letter Re: release of Facilities for Unrestricted Non-Radiologic Use," April 21, 1997.
- 679. Liddy, P, Area 4064 Final Status Survey Report, Rocketdyne Report No. RS-00003, March 30, 1999, pp. 6, 25-26.
- 680. Liddy, P., 17th Street Drainage, Final Status Survey, RS-00009, The Boeing Company, September 12, 1999, p. 6.
- 681. Liddy, P., Building 4019 Final Status Survey Report, The Boeing Company, June 10, 1999, p. 7.
- 682. Liddy, P., Building 4059 Final Status Survey Report (Phase 1), Boeing Report No. RS-00008, September 11, 1999, p. 4.
- 683. Liddy, Patricia, "Incident Report File A0686, Worker Concern Over Skin Rash," May 1, 1998.
- 684. Liquid Metals Test Building 023, Santa Susana Facility, Ventura County, California, Building Piping Plan, 303-023-M5, January 1, 1963.
- 685. Litwin, R.Z., Rockwell International Background and Capability to Develop a Weapons-Grade Plutonium Fuel Cycle and Disposal Evaluation for the PDR, October 5, 1992.

- 686. Loba, M. L., Internal Letter, Re: Violation of Health Phys. Practices, March 13, 1959.
- 687. Log Book, Building 373, January 11, 1962 to May 28, 1965.
- 688. Long-Range Plan for Decommissioning Surplus Facilities at the Santa Susana Field Laboratories, N001TI000200, Rockwell International, Unknown Date, p. 75.
- 689. Lopez, M., Letter Re: Release of Building 4020, January 31, 2005.
- 690. Lopez, M., Letter Re: Removal of RMMA Designation for B020, November 13, 1998.
- 691. Lopez, M., Release of 17th Street Drainage, U.S. Department of Energy, February 1, 2005, p. 1.
- 692. Lords, R.E., Westinghouse Idaho Nuclear Company, Inc., SNAP and AI Fuel Summary Report, Report WINCO-1222, August 1994.
- 693. Ludwig, Barbara, Letter Re: Demolish Buildings 4487& 4641, December 18, 2003.
- 694. Lupo, R. K., Confirmatory Survey, Building 4064 Site, Santa Susana Field Laboratory, Boeing-Rocketdyne, Ventura County, California, California Department of Health Services, Radiologic Health Branch, December 30, 1998, p. 5.
- 695. Lupo, R., Verification Survey of Building T028, California Department of Health Services, September 14, 1995.
- 696. Lupo, R.K., Confirmatory Survey, Building 4133 Hazardous Material Treatment Facility (HMTF), Santa Susana Field Laboratory, Boeing Rocketdyne, Ventura County, California, California Department of Health Services, Radiologic Health Branch, October 28, 1999.
- 697. Lupo, Roger, Confirmation Survey of Building T020 Concrete Blocks and Other Building Debris, Santa Susana Field Laboratory, March 26, 1999.
- 698. Lupo, Roger, DHS, "Verification Survey of Building T029," September 14, 1995.
- 699. Majors, W. K., Procedures for Decontamination of Building T003, Atomics International Report No. DWP-704-990-001, January 20, 1975, pp. 6-16.
- 700. Mandel, H., Heavy Water Organic Cooled Reactor, Physical Properties of Some Polyphenyl Coolants, April 15, 1966.
- 701. Map located at: http://dtsc-ssfl.com/files/maps/SSFL%20-%20Western%20Half.pdf.
- 702. Marcotte, E.J., Atomics International Internal Letter, re: Radiological Safety Incident Report, Sodium Service Vault SRE, 4/4/60, April 19, 1960.
- 703. Marsh, Richard, Isotope Products Laboratories, Letter No Subject Line, October 31, 1978.
- 704. McGinnis, E. R. and Liu, N., Building 4059 Site Final Status Survey Report (Phase A and Phase B), Boeing Report No. RS-00036, April 21, 2006, pp. 7, 30.
- 705. McGinnis, E. R., Rockwell Internal Letter to P. D. Rutherford, re: Radiological Safety Report, T059 Test Cell 1, September 2, 1992.
- 706. McGinnis, E. R., Rockwell Internal Letter to Radiation Protection and Health Physics Services, re: Radiological Safety Report, T059 Electrical Room, January 17, 1991.
- 707. McGinnis, E. R., Rockwell Internal Letter to Radiation Protection and Health Physics Services, re: Radiological Safety Report, T059 Restricted Area, February 25, 1991.
- 708. McGinnis, E. R., Rockwell Internal Letter to Radiation Protection and Health Physics Service, re: Radiological Safety Report, T059 Vault, September 20, 1991.
- McGinnis, E. R., Rockwell International Internal Letter, re: Radiological Incident Report, Soil Contamination Found in T064 Sideyard, 8/8/95, August 25, 1995.
- 710. McGinnis, E.R., Building 4133 Radiation Survey Report, RS-00015, The Boeing Company, January 14, 2004, p. 8.
- 711. McGinnis, E.R., Rockwell International Internal Correspondence, Re: Radiological Safety Incident Report, RMDF-T075, August 15, 1988, August 23, 1988.
- 712. McLain, Steve, G.D. Heil, Inc., Demolition Contractors Letter Re: Excavation and Sawcutting at Building 468, Santa Susana Field Lab, Ventura County, CA, June 11, 1998.
- McLaren/Hart Environmental Engineering Corporation, Additional Soil and Water Sampling, The Brandeis-Bardin Institute and Santa Monica Mountains Conservancy, Project No. 03.0600829.013, January 19, 1995, pp. 7-14 – 15, 8-4 – 86, 9-3.

- 714. McLaren/Hart Environmental Engineering Corporation, Multi-Media Sampling Report for the Brandeis-Bardin Institute and the Santa Monica Conservancy, Volume I, Project No. 29403-012, March 10, 1993, pp. 9-65 – 9-93, 11-11 – 11-16.
- 715. Melvold, R.W., Letter Re: Activation of Building 055 in Area IV, SSFL to be used as a Research and Development Lab, May 23, 1991.
- 716. Melvold, R.W., Letter Re: Building 055 Activation, Final Phase, March 16, 1992.
- 717. Memo from J. F. Lang, Engineer-in-Charge, to R.O. Meyer concerning Building 059, dated September 14, 1983.
- 718. Memorandum from DOE Oakland Operations Office to J. Neville, DOE/OAK NEPA Compliance Officer, February 16, 1999, p. 1.
- 719. Memorandum from Fujikawa, N., to Those Concerned, Reference: SCTI Support, October 14, 1988, HDMSE00600015.
- 720. Memorandum from R. S. Frazier, Rockwell International, Re: LANL DU Received at T009, dated September 22, 1989.
- 721. Montes, Michael, Letter Re: Buildings 030, 019, and 654, March 29, 1996.
- 722. Montgomery Watson Harza interview conducted March 25, 2000 to discuss source of ash at Building 4040.
- 723. Montgomery Watson Harza, DOE Leach Fields (Area IV AOC) RCRA Facilities Investigation Report, Santa Susana Field Laboratory, Ventura County, California, DRAFT, October 2003, p. 3-4.
- 724. Montgomery Watson Harza, Group 6 Northeastern Portion of Area IV, RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Volume 1, September 2006, pp. 3-2 – 3-3.
- 725. Montgomery Watson Harza, Group 8 Western Portion of Area IV RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Volume I – Text, Tables, and Figures, September 2007, p. 3-7.
- 726. Montgomery Watson Harza, Offsite Data Evaluation Report, Santa Susana Field Laboratory, Ventura County, California, Arcadia, California, December 2007, pp. ES-1 ES-4, 3-19 3-23.
- 727. Montgomery Watson Harza, Table 1, List of Historical Document Map Features at SRE, August 1, 2003.
- 728. Montgomery Watson Harza, Telephone Discussion Notes re: SRE Discharge Pipeline, ASTs, and UT-28 Details, September 26, 2002.
- 729. Mooers, A.R., Atomics International Internal Correspondence, Subject: Sodium Fire at the RMDF, July 10, 1968.
- 730. Mooers, A.R., Atomics International Internal Letter Re: Tritium Smear Survey, Building 030 Van de Graaff Accelerator, March 29, 1966.
- 731. Moore, J. D., Atomics International Internal Letter, re: Incident Report, SRE High Bay, 4-24-65, May 6, 1965.
- 732. Moore, J. D., Atomics International Internal Letter, re: Incident Report, Building 143 Primary Na Pipe Gallery, Mar. 22, 1965, May 22, 1965.
- 733. Moore, J. D., Atomics International Internal Letter, re: Radioanalysis Report, February 22, 1963.
- 734. Moore, J.D., Document No. AI-77-14, Atomics International Environmental Monitoring and Facility Effluent Annual Report 1976, Date Unknown.
- 735. Moore, J.D., Document No. ESG-79-7, Energy Systems Group Environmental Monitoring and Facility Effluent Annual Report 1978, April 1979.
- 736. Moore, J.D., Document No. ESG-81-17, Energy Systems Group Environmental Monitoring and Facility Effluent Annual Report 1980, May 27, 1981.
- 737. Moore, J.D., Document No. ESG-82-21, Energy Systems Group Environmental Monitoring and Facility Effluent Annual Report 1981, July 15, 1982.
- 738. Moore, J.D., Document No. ESG-83-17, Energy Systems Group Environmental Monitoring and Facility Effluent Annual Report 1982, June 1983.
- 739. Moore, J.D., Document No. RI/RD85-123, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report 1984, March 1985.
- 740. Moore, J.D., Document No. RI/RD86-140, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report 1985, April 1986.

- 741. Moore, J.D., Document No. RI/RD87-133, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report 1986, March 1987.
- 742. Moore, J.D., Document No. RI/RD88-144, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report 1987, March 1988.
- 743. Moore, J.D., Document No. RI/RD89-139, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report 1988, May 1989.
- 744. Moore, J.D., Document No. RI/RD90-132, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report 1989, May 1990.
- 745. Moore, J.D., Document No.ESG-84-9, Energy Systems Group Environmental Monitoring and Facility Effluent Annual Report 1983, March 1984.
- 746. Moore, J.D., Environmental and Radioactive Effluent Monitoring Annual Report 1973, Undated.
- 747. Moore, J.D., Internal Letter Re: Quarterly Review of NMDF (T055) for Radiation Safety , Fourth Calendar Quarter, 1981, February 22, 1982.
- 748. Moore, J.D., Internal Letter Re: Quarterly Review of NMDF (T055) for Radiation Safety First Calendar Quarter, 1983, July 7, 1983.
- 749. Moore, J.D., Inter-Office Letter Re: Environmental Survey of Building 353 Area, April 21, 1959.
- 750. Moore, J.D., Rockwell International Internal Correspondence, Re: Quarterly Review of the Radioactive Materials Disposal Facility (RMDF) for Radiation Safety, Third Calendar Quarter, 1988, December 22, 1988.
- 751. Morton, J., Draft Verification Survey of Building 4059 (Phase 1), Building 4133, and the 17th Street Drainage Area, Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, Oak Ridge Institute for Science and Education, February 2000, pgs 2-3.
- 752. Morton, J.R., Verification Survey of Building 4133, Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, ORISE 00-0577, April 2000.
- 753. Morton, J.R., Verification Survey of the 17th Street Drainage Area, Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, April 14, 2000, p. 3.
- 754. Moss, T.A., Letter Re: Monthly Progress Report, April 1989, May 15, 1989.
- 755. Moss, T.A., Letter Re: Monthly Progress Report, August 1989, September 15, 1989.
- 756. Moss, T.A., Letter Re: Monthly Progress Report, March 1990, April 12, 1990.
- 757. Motiafard, V., State of California, Department of Health Services, Addendum Report, Rockwell International Corporation Rocketdyne Division, November 30, 1989.
- 758. Mountford, L.A., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 115A, March 10, 1979.
- 759. Mountford, L.A., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 115B, March 10, 1980.
- 760. Mountford, L.A., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 115F, March 10, 1984.
- 761. Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), Revision 1, NUREG-1575, Rev. 1, EPA 402-R-97-016, Rev. 1, DOE/EH-0624, Rev. 1, August 2000, pp. 2-5.
- 762. Murphy, G.L., Confirmatory Radiological Survey of the L-85 Reactor Facility, Final Report, December 1986.
- 763. MWH Americas, Inc., Standardized Risk Assessment Methodology (SRAM) Work Plan, Santa Susana Field Laboratory, Ventura County, California, Revision 2 – Final, September 2005, pgs. Table 1-3, Table 1-4, Figure 1-5.
- 764. MWH, DOE Leach fields (Area IV AOC) RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Draft, October 2003.
- 765. MWH, Group 7 Northern Portion of Area IV RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Volume 1- Text, Tables and Figures and Volume II – RFI Site Reports, Appendix C, Radioactive Materials Handling Facility RFI Site (SWMU 7.6 and Area IV AOC), June 2009, pgs 3-8, C.2-4.
- 766. MWH, Group 8 Western Portion of Area IV RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California, Volume I – Text, Tables, and Figures, September 2007, pp. 2-6 – 2-8.

767. MWH, Offsite Data Evaluation Report, Santa Susana Field Laboratory, Ventura County, CA, December

	2007, p.2-5
768.	MWH, RCRA Facility Investigation Work Plan Addendum Amendment Radioactive Materials Handling
	Facility RFI Site (SWMU 7.6 and Area IV AOC) Santa Susana Field Laboratory, Ventura County, California,
	March 2008.
769.	MWH, RCRA Facility Investigation Work Plan Addendum Second Amendment, Radioactive Materials
	Handling Facility RFI Site (SWMU 7.6 and Area IV AOC), Santa Susana Field Laboratory, Ventura County,
	California, October 2008.
770.	MWH, The Boeing Company Closure Plan Hazardous Waste Management Facility, Buildings T029 and
	T133, Santa Susana Field Laboratory, Ventura County, California, December 2003, pgs. 3-10–3-11.
771.	Nagel, W.E., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization
	Nos. 108D, 108E, 108F, 108H, 108K, Rockwell International, June 22, 1981 through June 22, 1988.
772.	Nagel, W.E., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization
	No. 115H, March 10, 1986.
773.	NASA letter from C. J. Scolese, Acting Administrator, to the Honorable Nancy Pelosi, Speaker of the House
	of Representatives, Re: NASA's Intention to Declare SSFL Property as Excess, April 10, 2009, p. 2.
774.	Neely, H.H., Sodium Component Test Laboratory (SCTL) System Design Description, 026-XC-0010, Energy
	Technology Engineering Center, March 15, 1982 Revised September 30, 1987, pgs. 2-28, 2-91.
775.	Norman Engineering Co., Building 019, SNAP Flight Systems Prototype, Nuclear Test Facility, Plumbing
	Plans and Details, 303-019-M3, Rev. 7, September 8, 1961.
776.	North American Aviation, Inc., The North American Story, December 1960, p. 7
777.	North American Rockwell Corporation Internal Letter from J. D. Moore to W. F. Heine, Re: Radioactivation
975	of SGR Support Structure, dated October 3, 1969.
778.	North American Rockwell Corporation Internal Letter from R. K. Owen to W. F. Heine, Re: Final Contamination Survey of SGR Facility, dated August 13, 1969.
779.	North American Rockwell Corporation Internal Letter from R. K. Owen to W. F. Heine, re: Water Seepage
	Hole in the SRE Wash Cell Valve Pit, January 15, 1970.
780.	North American Rockwell Corporation Internal Letter from W. F. Heine to M. E. Remley, Re: Operational
	Safety Unit Monthly Highlights – June 1969, dated July 8, 1969, p. 3.
781.	North American Rockwell Corporation, Environmental Assessment, Decommissioning of the SRE, July 27,
	1973.
782.	North American Rockwell Internal Letter from W. F.eine to R. W. Hartzler, re: Use of SRE Facility for
	Storage, October 30, 1972.
783.	NRC, N001SRR140087, Safety Evaluation by the Office of Nuclear Reactor Regulation Supporting Order
	Authorizing Dismantling of Facility and Disposition of Component Parts, Rockwell International
	Corporation, L-85 Reactor, Docket No. 50-375, February 22, 1983.
784.	Oak Ridge Associated Universities Report, no document number, Confirmatory Radiological Survey Nuclear
	Materials Development Facility (Building T-055), Rockwell International, Santa Susana, California, July
705	1987.
/85.	Oak Ridge Associated Universities, Confirmatory Radiological Survey of the L-85 Reactor Facility,
786.	Rocketdyne Division, Rockwell International Corporation, Santa Susana, California, December 1986. Ogden Environmental and Energy Services Co., Inc., Phase II Subsurface Investigation Underground Storage
/80.	Tank UT-55 Building 055, November 1997.
787.	Ogden Environmental and Energy Services Co., Inc., RCRA Facility Investigation Work Plan Addendum
/0/.	Amendment, Santa Susana Field Laboratory, Ventura County, California, June 2000, pgs. 7-1–7-2.
788.	Ogden Environmental and Energy Services, Closure Report, Underground Storage Tank UT-3 (LUFT)
/00.	#94044) Building 009, Santa Susana Field Laboratory, Ventura County, California, Project No. 313150002,
	November 1998, pp. 1-2.
789.	Oldenkamp, R.D. and Mills, J. C., Nuclear Operations at Rockwell's Santa Susana Field Laboratory – A
	Factual Perspective, Rockwell International; Report No. N001ER000017, September 6, 1991, p. 23.
790.	Oldenkamp, R.D. and Mills, J.C., Nuclear Operations at Rockwell's Santa Susana Field Laboratory – A
	Factual Perspective, N001ER000017, Rockwell International, December 20, 1989, p. 86.
	•

- 791. Oldenkamp, R.D. et. al., Rockwell International Document No N001ER000017, Nuclear Operations at Rockwell's Santa Susana Field Laboratory A Factual Perspective, January 16, 1990.
- 792. Oliver, B. M. and Subbraman, G., Final Decontamination and Radiological Survey of Portions of Building T009, Rockwell International Report No. N704SRR990032, December 18, 1990, pp. 1, 5-11.
- 793. Oliver, B.M., Building T011 Final Survey Procedure, N001SRR140128, Rockwell International, Rocketdyne Division, April 19, 1994.
- 794. Oliver, B.M., Final Decontamination and Radiological Survey of Building T 028, N704SRR990033, Rockwell International, February 21, 1991, pgs.14-15.
- 795. Oliver, B.M., Final Radiological Survey Report for Building T012,ETEC No. 012-AR-0002, Energy Technology Engineering Center, June 14, 1996, p. 7.
- 796. Olson, P, et. al, GEN-ZR-0002, CERCLA Program Phase II Site Characterization, May 29, 1987.
- 797. Olson, P, Shepard, R., and Adler, K., CERCLA Program Phase II Site Characterization, ETEC Report No. GEN-ZR-0002, May 29, 1987, p. 5.
- 798. Oma, Hannibal, Letter Re: Release of Facilities for Unrestricted Non-Radiologic Use, December 22, 1997.
- 799. Operating Limits, SNAP 10 A Flight Systems in the Acceptance Test Facility (Building 019), Enclosure to 64AT-6960, p. 6.
- 800. Operating Specification for the Radioactive Materials Disposal Unit, Undated, BNA00973193.
- 801. Operating Specification Radioactive Materials Disposal Unit, November 7, 1963, p. 3.
- 802. Operation Plan, Hazardous Waste Management Facility, 133-AN-0001, Energy Technology Engineering Center, March 3, 1991, p. 25.
- 803. ORISE Document 96/C-4, "Verification Survey of the Interim Storage Facility; Buildings T030, T641, and T013; an Area Northwest of Buildings T019, T013, T012, and T059; and a Storage Yard West of Buildings T626 and T038, SSFL, Rockwell International, Ventura County, California," Vitkus, T. J., and T. L. Bright, February 1996.
- 804. ORISE Document 96/C-4, "Verification Survey of the Interim Storage Facility; Buildings T030, T641, and T013; an Area Northwest of Buildings T019, T013, T012, and T059; and a Storage Yard West of Buildings T626 and T038, SSFL, Rockwell International, Ventura County, California," Vitkus, T. J., and T. L. Bright, November 1995.
- 805. ORISE Document, no document number, "Verification Survey of Building T363, SSFL, Rockwell International, Ventura County, California," Vitkus, T. J., and J. R. Morton, October 1996.
- 806. ORISE Report, 94/K-14, "Verification Survey of Buildings 005, 023, and 064, Santa Susana Field Laboratory, Rockwell International, Ventura County, California," October 1994. p. 17
- 807. ORISE Report, 96/C-5, "Verification Survey of Buildings T019 and T024, Santa Susana Field Laboratory, Rockwell International, Ventura County, California," February 1996.
- 808. ORISE, Document No. ORISE 2000-1524, Verification Survey for the Land Area Formerly Supporting the Hot Laboratory, Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, December 2000.
- 809. ORISE, Letter, "Type A Verification of Building T029, Santa Susana Field Laboratory, Rockwell International, Canoga Park, California," from T. Vitkus (ORISE) to A. Kluk, February 5, 1993.
- 810. ORISE, Verification Survey of Buildings 005, 023, and 064, Santa Susana Field Laboratory, Rockwell International, Ventura County, California, 94/K-14, October 1994.
- 811. Ortega, Christina, Operations Report for 17th Street Decontamination, The Boeing Company, August 21, 2000, p. 5.
- 812. Owen, D. E., Atomics International Internal Letter, re: Incident Report, Building 064 Vault, 10-8-64, October 27, 1964.
- Owen, R. K., Radiological Survey Plan, Support of D & D Program Operations at T-143 (SRE), Rockwell International Report No. N704TP990008, September 15, 1981, p. 2.
- 814. Owen, R. K., Rockwell International Internal Letter, re: Personal Injury Incident of June 24, 1978 at SRE, July 7, 1978.
- 815. Owen, R.K. Atomics International Letter Re: Radiation Survey of SNAP 10FS-3 Reactor in Test Cell 2, Building 024, April 12, 1966.

- 816. Owen, R.K., Atomics International Internal Correspondence, Subject: Special Bioassay Request, April 9, 1965.
- Owen, R.K., Atomics International Letter Re: Remote Radiation Survey of Transverse Corridor of Test Cell 2, Building 024, May 3, 1966.
- 818. Owen, R.K., Atomics International Letter, Re: Radiation Survey #2, SNAP 10FS-3 Reactor in Test Cell 2, Building 024, May 4, 1966.
- 819. Owen, R.K., Handwritten Note Re: SRE Interim Storage Yard, July 5, 1979.
- 820. Owen, R.K., Internal Letter Re: Bi-Monthly Routine Radioactive Contamination Survey of Building 093, L-85 Facility, October 14, 1981.
- 821. Owen, R.K., Internal Letter Re: Incident Report Sealed Source Capsule Failure at T029, December 2, 1970.
- 822. Owen, R.K., Letter Re: "Radiation Survey T073 (KEWB) Site," July 17, 1975.
- 823. Owen, R.K., Rockwell International Internal Correspondence, Re: Radiological Safety Incident Report, RMDF, July 24, 1980, August 20, 1980.
- 824. Owen, R.K., Rockwell International, Re: Preliminary Survey Results Building 024, February 11, 1977.
- 825. Owen, R.K., Rough Draft Internal Letter Re: High Level Radioactive Airborne Concentrations Incident at Building-028 (STIR), March 5, 1965, Undated.
- 826. Owens, D. E., Atomics International Internal Letter, re: Incident Report, SRE High Bay, 2-27-65, March 2, 1965.
- 827. Owens, D. E., Radiological Survey Results OMR-SGR Critical Assembly Facility, Santa Susana, Building 009, N001TI990001, May 17, 1979, p. 3.
- 828. Owens, D. E., Radiological Survey Results Release to Unrestricted Use, SRE Region II (Building 163, Box Shop), Rockwell International Report No. N704TI990028, May 4, 1978, pp. 3, 5-7.
- Owens, D. E., Radiological Survey Results Release to Unrestricted Use, SRE Region V (Gas Storage Vault), Rockwell International Report No. N704TI990031, November 2, 1978, pp. 3-9.
- 830. Owens, D. E., Radiological Survey Results Release to Unrestricted Use, SRE Region V, Rockwell International Report No. N704TI990031, May 26, 1978, pp. 3-9.
- 831. Owens, D. E., Radiological Survey Results Release to Unrestricted Use, SRE Region VI Water Tank Area, Rockwell International Report No. N704TI990032, November 10, 1978, pp. 3-8.
- Owens, D. E., Radiological Survey Results Release to Unrestricted Use, SRE Region II (Building 163, Box Shop), Rockwell International Report No. N704TI990028, May 4, 1978, pp. 3-7.
- 833. Owens, D. E., Rockwell International Internal Letter, re: Incident Report, SRE September 23, 1977, Undated.
- 834. Owens, D.E., Internal Letter Re: Incident Report, July 26, 1978.
- 835. Owens, D.E., Internal Letter Re: Stack Monitor Failure at NMDF, August 1, 1978.
- Owens, D.E., Rockwell International Internal Correspondence, Re: Radiological Safety Incident Report, RMDF, August 14, 1979, A0314, August 20, 1979.
- 837. Owens, D.E., Rockwell International Internal Letter, Subject: Emergency Response-Uranium Fire at T028, March 28, 1978.
- 838. Pacific Materials Laboratory, Inc., Final Compaction Test Report Structural Backfill of Former Buildings 4143 and 4003 Test Cells, Area IV Rocketdyne, Santa Susana Field Laboratory, Ventura County, CA, January 2, 2001.
- 839. Parker, D., SGR Liquid Drain Line System Removal, Building 009, Rockwell International Report No. 195DWP000001, October 30, 1989, pp. 3-7.
- 840. Pascolla, A.L., Building 028 and STIR Facility Decontamination and Decommissioning, 028-AR-0001, Rockwell International, March 18, 1996, p.9.
- 841. Pascolla, A.L., Decontamination and Decommissioning of Building T012, ETEC No. 012-AR-0001, Boeing North American Inc., Rocketdyne Division, May 8, 1997, pgs. 3, 8.
- 842. Pascolla, A.L., Rockwell International Document No. 028-AR-0001, Final Report, Building 028 and STIR Facility Decontamination and Decommissioning, March 18, 1996.
- 843. Pendleberry, S. L., Demolition Specification Removal of Fuel Oil Storage and Distribution System, ETEC Report No. GEN-SP-00051 Rev. NEW, November 2, 1998.

844.	Pendleberry,	S. L	., Remo	oval of	DOE	Buildings	, Demo	Pak A	, Boeing	Report	EID-04366	5, May	18, 1	999, pp.
	4-5.													
			_											

- Pendleberry, S. L., Removal of Fuel Oil Storage and Distribution System, ETEC Report No. GEN-SP-00051, March, 26, 1999, pp. 5-7.
- 846. Pendleberry, S., Document No. EWR-824906, Demolition Procedure Demolition of Rubidium Loop in B/373, May 1995. Export Controlled Document
- 847. Pendleberry, S., ETEC Document No. SSWA-AN-0005, D&D Plan for Building 363, May 12, 1995.
- 848. Pendleberry, S.L., ETEC RMDF Decontamination and Decommissioning (D&D) Project Management Plan, RMDF-AN-0001, Energy Technology Engineering Center, February 10, 1993, pgs. 24-29.
- 849. Perlow, M.A., Mercury Rankine Program, NAA-SR-MEMO-11125, SNAP Weekly Highlights for Week Ending 3-5-65, March 5, 1965.
- 850. Perlow, M.A., Mercury Rankine Program, NAA-SR-MEMO-11248, SNAP Weekly Highlights for Week Ending 4-9-65, April 9, 1965.
- 851. Personnel Interview, Dan Trippeda, September 8, 2003.
- 852. Personnel Interview, Randy Ingersoll, September 23, 2003.
- 853. Pomatto, G., Letter Re: Contract DE-AC03-99SF21530 GFY04 Performance Incentive Fee Achievements, November 17, 2004.
- 854. Poucher, F.W., Mercury Rankine Program Test Planning and Evaluation Unit, NAA-SR-MEMO-10223, SNAP Weekly Highlights for Week Ending 7-10-64, July 11, 1964.
- 855. Poucher, G.S. Abandoned Sewer Lines, Drain Line, and Septic Tank Removal Activity Requirement, N001ACR000001, Rockwell International, Undated.
- 856. Poucher, G.S., Abandoned Sewer Lines, Drain Line, and Septic Tank Removal Detailed Work Procedure, N001DWP000007, Rockwell International, May 17, 1983.
- 857. Pritchett, D., Radiation Survey, SSFL, Building 172, Unknown Organization, February 4, 1994, HDMSp01703040.
- 858. QA2 Environmental, Draft Closure Plan for Hazardous Waste Management Facility, Santa Susana Field Laboratory, Area IV, Ventura County, California, January 18, 1999, p. 11.
- 859. Radiation and Nuclear Safety, Rockwell International Internal Letter, re: Incident Report Radioactive Airborne Release at SRE, October 28, 1976.
- 860. Radiation Safety Records Management System Index, The Boeing Company, Reviewed November 8, 2010.
- 861. Radioactive Material Authorizations, Rockwell International, BNA02647573.
- 862. Radioactive Waste Packaging Lot Follower and Procedure Verification Container No. L598, Unknown Author, July 16, 1997.
- Radiological Characterization Plan, Santa Susana Field Laboratory, Area IV, A4CM-AN-0003, Revision A., Rockwell International Corporation Rocketdyne Division, March 30, 1994, p. 3-15.
- 864. Ralph M. Parsons Company, SNAP-II Facility, Santa Susana, California, Phase II, Grading and Drainage Plan, May 1, 1959.
- 865. Ralph M. Parsons Company, SNAP-II Facility, Santa Susana, California, Phase II, Environmental Test Building, Legend Schedules, Details and Flow Diagrams, May 1, 1959.
- 866. Ralph M. Parsons Company, SNAP-II Facility, Santa Susana, California, Phase II, Environmental Test Building, First Floor Plan and Toilet Room Details Piping, May 1, 1959.
- 867. Ralph M. Parsons Company, SNAP-II Facility, Vicinity Map, Site and Utilities Plan, May 1, 1959
- 868. Randen, et al., Hazards Summary Report The Shield Test and Irradiation Reactor Modifications for One Megawatt Operation, NAA-SR-9129, Atomics International, December 15, 1963, pgs. 29, 70, 93.
- 869. Randen, K.G. and Golliher, K.G., Startup and Operation of the One-Megawatt Shield Test and Irradiation Reactor, NAA-SR-11175, Atomics International, March 25, 1966, p. 10.
- 870. Randen, K.G. et al., Hazards Summary Report The Shield Test and Irradiation Reactor Modifications for One Megawatt Operation, NAA-SR-MEMO-9129, Atomics International, December 15, 1963, p. 62.
- 871. Raper, R. R., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE West Pad, 7/30/62, September 6, 1962.
- 872. Rash, M., Final Oversight Verification and Confirmation Radiological Survey Report for Buildings T-012, T-029, and T-363, Tetra Tech EM, Inc., December 20, 2002, pgs. 2-3.

- 873. Rash, M., Final Rocketdyne Technical Support and Field Oversight Document Review for Buildings T009, T011, T019, T055, and T100, Tetra Tech EM, Inc., December 20, 2002, pgs 8-9.
- 874. Redacted, Rockwell Incident Report, re: Contaminated Fork Truck/Gloves, December 22, 1998.
- 875. Remley, M. E. General Storage Data for Buildings 064 and 022, October 7, 1977.
- 876. Remley, M.E., Atomics International Letter Re: Annual Review of Buildings 012 and 373 Minutes of Meeting of May 3, 1966, July 7, 1966.
- 877. Remley, M.E., Atomics International Letter Re: Semiannual Review of Building 373 Recommendations and Minutes of Meeting of September 16, 1964, September 24, 1964.
- 878. Remley, M.E., Atomics International Letter Re: Semiannual Survey of the SNAP Critical Facility and Minutes of Meeting of February 17, 1964, February 27, 1964.
- 879. Remley, M.E., Atomics International, Letter Re: Comments on Draft Reactor Safety Survey Report for Building 024, July 21, 1965.
- 880. Remley, M.E., Atomics International, to Levy, J. V., U.S. Atomic Energy Commission, Re: Fire in the Component Development Hot Cell, May 9, June 7, 1962.
- 881. Remley, M.E., Atomics International, to Levy, J.V., U.S. Atomic Energy Commission, Re: Unusual Incident at the Component Development Hot Cell, July 15, 1963.
- 882. Remley, M.E., Authorization No. 118D, August 22, 1982.
- 883. Remley, M.E., Internal Letter Re: Review of Bldgs 012 and 373 (NDFL) Recommendations and Minutes of Meeting of March 20, 1963, April 8, 1963.
- 884. Remley, M.E., Internal Letter Re: Review of Buildings 012 and 373 and the Use of Poison Loaded Mylar Films in the SCA-4A and -4B Experiments, Minutes of Meeting of March 29, 1965, June 24, 1965.
- 885. Remley, M.E., Internal Letter Re: Semiannual Review of Building 373 Recommendations and Minutes of Meeting of September 16, 1964, September 24, 1964.
- 886. Remley, M.E., Letter Re: Comments on Draft Report of Reactor Safety Survey Report, SNAP Critical Assembly-4A, Building 373, June 8, 1965. (Export Controlled Document)
- 887. Remley, M.E., Letter Re: Physical Security of Special Nuclear Materials Docket 70-25, December 22, 1975.
- 888. Remley, M.E., Letter Re: Quarterly Radiation Over-Exposure, Incident A0291, October 13, 1961.
- 889. Remley, M.E., Letter Re: Renewal of Special Nuclear Materials License No. SNM-21, Docket 70-25, December 17, 1982.
- 890. Remley, M.E., Rockwell International Letter Re: Disposal of Transuranic Waste, February 27, 1987.
- 891. Remley, M.E., Rockwell International Letter Re: Plutonium-Contaminated Waste, June 8, 1987.
- 892. Remley, M.E., Summary Report of Ambient Exposure Rate Measurements at the L-85 Research Reactor Facility After Repair of Concrete Floor, February 1987.
- 893. Review of Radiation Safety Records Management System Index, November 2010.
- 894. Review of Radiological Incident Database, 2010.
- 895. Review of Radiological Incident Index, 2010.
- 896. RFI Site Review Status, Leach Field Area IV B008 Warehouse, Unknown Author, February 16, 2000, HDMSE00506904.
- 897. Richards, C. and K. Murray, Rockwell International Document No. GEN-ZR-0019, Safety Analysis Document for RMDF Operations, September 9, 1992.
- 898. Richards, C. D., Building 064 Removal of Filter Plenum Systems, ETEC Report No. SSWA-SOP-003, March 10, 1992.
- 899. Richards, C. D., D & D Work Plan for Building 064, Environmental Restoration, ETEC Report No. SSWA-AN-001, December 12, 1991.
- 900. Richards, C.D. et. al., Rockwell International Document No. ER-AN-0001, Surveillance and Maintenance Program Plan for SSFL Surplus Facilities, March 1993.
- 901. Robinson, G., Survey of Leach Field, June 29, 1978.
- 902. Robinson, K.S., Rockwell International Internal Letter Re: Alkali Metal Waste in Area IV, January 22, 1989.
- 903. Rocketdyne Division, Annual Site Environmental Report, Santa Susana Field Laboratory and De Soto Sites 1994, RI/RD95-153, September 1995.
- 904. Rocketdyne Division, Annual Site Environmental Report, Santa Susana Field Laboratory and De Soto Sites 1995, RI/RD96-140, July 1996. p. 10

- 905. Rocketdyne Division, Rocketdyne Propulsion and Power DOE Operations Annual Site Environmental Report 1997, A4CM-ZR-0012, November 1998. p.44
- 906. Rocketdyne Document A4CM-AN-0003, Rev. A, Radiological Characterization Plan, March 30, 1994, p. 2-11
- 907. Rocketdyne Document A4CM-ZR-0011, Rev. A, Area IV Radiological Characterization Survey, August 15, 1996.
- 908. Rocketdyne Environmental Affairs, Building 4024 SNAP Environmental Test Facility, Undated.
- 909. Rocketdyne Environmental Affairs, Engineering Test Building Building 4003, February 10, 2000.
- 910. Rocketdyne Report N001SSR140087, Radiation Survey for Release for Unrestricted Use L-85 Reactor Facility, March 6, 1986.
- 911. Rocketdyne Report, 005-ZR-0001, "Final Radiological Survey of Building 005," September 21, 1993.
- 912. Rocketdyne Report, 023-AR-0002, "Building 023 D&D Operations Final Report," September 21, 1993.
- 913. Rocketdyne Report, 030-AR-0001, "Final Radiological Survey Report for Building T030," January 22, 1997.
- 914. Rocketdyne Report, 030-AR-0002, "Decontamination and Decommissioning (D&D) of Building T030," November 13, 1997.
- 915. Rocketdyne Report, 363-AR-0001, Decontamination and Decommissioning of Building T363, September 25, 1997.
- 916. Rocketdyne Report, Building 023 D&D Operations Final Report, 023-AR-0002 Rev. A., March 7, 1996.
- 917. Rocketdyne Report, Final Radiological Survey Report of Building 023, 023-ZR-0001, March 1, 1994.
- 918. Rocketdyne Report, N001ER000017, "Nuclear Operations at Rockwell's Santa Susana Field Laboratory A Factual Perspective," September 1991.
- 919. Rocketdyne Report, N001SSR140087, Radiation Survey for Release for Unrestricted Use L-85 Reactor Facility, March 6, 1986.
- 920. Rocketdyne, Report No. A4CM-ZR-0011, Area IV Radiological Characterization Survey Final Report, August 15, 1996.
- 921. Rocketdyne, Report No. SSWA-ZR-0002, Final Radiological Survey Report for Building T363, June 21, 1996.
- 922. Rocketdyne, A4CM-ZR-0011, Area IV Radiological Characterization Survey, Final Report, Volume I, August 15, 1996.
- 923. Rocketdyne, Building 005 Final Survey Procedure, 005-SP-0001, December 9, 1992.
- 924. Rocketdyne, Building 023 D&D Operations Final Report, 023-AR-0002 Rev. A., March 7, 1996.
- 925. Rocketdyne, Building 023 D&D Operations Final Report, 023-AR-0002, September 21, 1993.
- 926. Rocketdyne, Building 023 Final Survey Procedure, 023-SP-0001, August 3, 1993, p.8
- 927. Rocketdyne, Document A4CM-ZR-0011, Rev. A, Area IV Radiological Characterization Survey, August 15, 1996.
- 928. Rocketdyne, Document No. ER-AN-006, Environmental Monitoring Program Plan Santa Susana Field Laboratory Area IV, April 30, 1992.
- 929. Rocketdyne, Final Radiological Survey of Building 005, 005-ZR-0001, September 21, 1993.
- 930. Rocketdyne, Historical Site Photograph.
- 931. Rocketdyne, N001SSR140087, "Radiation Survey for Release for Unrestricted Use L-85 Reactor Facility," March 6, 1986.
- 932. Rocketdyne, Report A4CM-AN-003, Rev. A, Radiological Characterization Plan, March 30, 1994.
- 933. Rocketdyne, Report A4CM-ZR-0011, "Area IV Radiological Characterization Survey Final Report," August 15, 1996.
- 934. Rocketdyne, Report ER-AN-0006, Environmental Monitoring Program Plan, Santa Susana Field Laboratory, Area IV, September 30, 1992.
- 935. Rocketdyne, Report No. 363-SP-0001, Decontamination Procedure for Bay Four, Building 363, May 8, 1995.
- 936. Rocketdyne, Report No. SSWA-ZR-0002, Final Radiological Survey Report for Building T363, June 21, 1996.
- 937. Rocketdyne, Rocketdyne Propulsion and Power DOE Operations Annual Site Environmental Report 1997, November 23, 1998. p. 59.
- 938. Rocketdyne, Rockwell International, Building 023 Final Survey Procedure, 023-SP-001, August 3, 1993

- 939. Rocketydyne, Final Radiological Survey Report of Building 023, 023-ZR001, March 1, 1994, p. 65
- 940. Rockwell Aerospace, Rocketdyne Division Annual Site Environmental Report Santa Susana Field Laboratory and De Soto Sites 1993, RI/RD94-126, October 21, 1994.
- 941. Rockwell Health and Safety, Letter, "Transfer of Radioactive Sources from T029," from J. D. Moore (Rockwell Health and Safety) to W. F. Heine, May 1, 1974.
- 942. Rockwell internal letter from C. D. Bingham to W. F. Heine, Re: Application to Perform Radiochemical Operations in Building 003A (ETB Annex), December 10, 1970.
- 943. Rockwell Internal Letter from F. C. Schrag to P. H. Horton, Re: Plans and Work in Progress for Building 009, November 13, 1990.
- 944. Rockwell Internal Letter from F. H. Badger to R. J. Tuttle, Re: Radiological Information on Old Sodium Disposal Area, April 23, 1987.
- 945. Rockwell Internal Letter from J. M. Harris to R. Tuttle, Re: Temporary RA Equipment Storage T009, April 20, 1990.
- 946. Rockwell Internal Letter from P. H. Horton to L. J. Auge, Re: Start Up of High Energy Rate Forge (HERF) Depleted Uranium (DU) Operations at Building 009, SSFL, September 29, 1989.
- 947. Rockwell Internal Letter from R. J. Tuttle to Isotope Committee, Re: Short-Term Approval for Work with Radioactive Sample in Building 009, Santa Susana, May 9, 1983.
- 948. Rockwell Internal Letter from R. S. Frazier and P. H. Horton to Radiation Safety Committee Chairman, Re: Request for New Authorization for the Use of Radioactive Materials and Radiation Producing Devices (Forging of Depleted Uranium in Building 009, SSFL), October 27, 1988.
- 949. Rockwell Internal Letter from W. R. Johnson to W. E. Nagel, Re: Request for Radioactive Material and Radiation Producing Device User Authorization for ISI Operations at Building T009, June 10, 1987.
- 950. Rockwell Internal Letter from W. R. McCurnin to J. P. Page, Re: Highlights, Week Ending May 26, 1989, May 30, 1989, p. 2.
- 951. Rockwell International Authorization Review by F. E. Begley, February 6, 1989.
- 952. Rockwell International Corporation, Rocketdyne Division, Radiological Characterization Plan, Santa Susana Field Laboratory, Area IV, A4CM-AN-0003, Rev. A, March 30, 1994, pgs. 4-1, 4-4, 4-11–4-12.
- 953. Rockwell International Corporation, Site Development Plan 1977-1981, United States Energy Research and Development Administration Liquid Metal Engineering Center, June 1975.
- 954. Rockwell International Document N001T1000200, Long-Range Plans for Decommissioning Surplus Facilities at the Santa Susana Field Laboratories, Date Unknown.
- 955. Rockwell International Document, N704DWP990024, "Dismantling and Removal of 10FS3 (SNAP) Vacuum Vessel from Building T024, Detailed Working Procedure," November 16, 1976.
- 956. Rockwell International Document, N704TI990044, Radiological Survey Results Release to Unrestricted Use, Building 024, SSFL, November 28, 1978.
- 957. Rockwell International Document, N704TP99009, "Radiological Survey Plan, Support of D&D Program Operations T-024 (SNAP 2 and 10), December 9, 1976.
- 958. Rockwell International Document, Use Authorization 62, February 6, 1973.
- 959. Rockwell International Drawing, RMDF Santa Susana Facility Security Systems Upgrade Fencing & Site Work, 303-022-C9, September 22, 1981.
- 960. Rockwell International Drawing, Santa Susana Facility Area Plan, Storm Drain Master East, 303-GEN-C93, September 1977.
- 961. Rockwell International Drawing, Santa Susana Facility B/022, NA Melt Electrical Heaters, Power & Control, 303-022-E8, February 19, 1977.
- 962. Rockwell International Drawing, Santa Susana Field Laboratory B/021 & B/022 Liquid Waste Storage, 303-022-P1, August 23, 1978.
- 963. Rockwell International Drawing, SSFL Area IV, Bldg. 133, Trench Installation Plan, M33-69239-SM1, November 1, 1988.
- 964. Rockwell International email from M. J. Gabler to D. Bunch, re: Use of DOE Building 4014 by Industrial Security, June 21, 1996.
- 965. Rockwell International email from R. D. Meyer to M. E. Lee, re: B/014 Evacuation by ETEC, June 3, 1996.
- 966. Rockwell International email from S. L. Samuels to J. H. Washington, re: B/014, circa 1996.

- 967. Rockwell International Internal Letter from B. F. Ureda to S. Cunha, re: Disposition of Building 153 Sodium Service Building, May 25, 1977.
- 968. Rockwell International Internal Letter from B. F. Ureda to W. F. Heine, re: SRE Hot Cells D & D, December 1, 1976.
- 969. Rockwell International Internal Letter from F. E. Begley to Mailing List, Radiation Survey of Building T003 Santa Susana, March 15, 1982.
- 970. Rockwell International internal letter from F. E. Begley to R. J. Tuttle, re: Unconditional Release of Building T724 for Unrestricted Use, January 18, 1976.
- 971. Rockwell International Internal Letter from F. H. Badger to W. R. McCurnin re: Preliminary Radioactive Survey Sodium Burn Pit, dated October 6, 1978.
- 972. Rockwell International Internal letter from J. A. Chapman to R. D. Meyer, Re: Field Work Task Proposal for Remediation of Contaminated Areas Identified by the DOE SSFL Site Radiological Survey, dated December 1, 1988, p. 5.
- 973. Rockwell International Internal Letter from J. F. Lang to B. F. Ureda, Decontamination of Building 003, March 9, 1982.
- 974. Rockwell International Internal Letter from P. D. Rutherford to C. Butler, Re: Building 009 Roof Survey, dated May 4, 1995.
- 975. Rockwell International internal letter from P. L. Kleinsmith to K. Johns, re: Deactivation of SRE Retention Pond, March 28, 1983.
- 976. Rockwell International internal letter from R. J. Tuttle to R. T. Lancet, re: Decommissioning of Decontamination Trailer, August 28, 1989.
- 977. Rockwell International Internal Letter from V. J. Schaubert to J. P. Page, re: User Authorization, Building 064 North Vault, April 24, 1989.
- 978. Rockwell International Inventory of Building 014, April 14, 1994.
- 979. Rockwell International letter from C. C. Commers to L. Lanni, DOE, re: Building 003 and Building 163 Ownership, March 25, 1982.
- 980. Rockwell International Letter from G. G. Gaylord to D. Williams, U.S. DOE, re: Building 064 Side Yard Survey, April 29, 1993.
- 981. Rockwell International Letter from G. G. Gaylord to R. Liddle, U.S. DOE, re: Final Survey of Radiological Decontamination of Building 064 Side Yard, December 11, 1990.
- 982. Rockwell International letter from R. J. Tuttle to R. Vaille, U.S. EPA, re: Identification and Description of Areas involved with Radioactive Materials at SSFL Area IV, dated October 2, 1989, p. 7.
- 983. Rockwell International Letter from R. W. Hartzler to L. Lanni, DOE, re: Santa Susana Laboratory, Building 003, June 4 1982.
- 984. Rockwell International Letter from W. D. Kittinger to C. D. Jackson, ERDA, re: Shipment of SRE Sodium to Hanford, June 7, 1977.
- 985. Rockwell International Photograph, 6CZ11-4/5/89-S2F, April 5, 1989, HDMSP00033184.
- 986. Rockwell International Radiation Survey Report, Building T040, May 1, 1997.
- 987. Rockwell International Radiological Safety Incident Report from R. McGinnis to J. Chapman, dated June 10, 1986.
- 988. Rockwell International Report, AI-DOE-13559, Nuclear Materials Development Facility Decommissioning Final Report, March 31, 1987.
- 989. Rockwell International Report, AI-ERDA-13159, "KEWB Facilities Decontamination and Disposition Final Report," February 25, 1976.
- 990. Rockwell International Report, ESG-81-30, Onsite Radiological Contingency Plan for Rockwell International Operations Licensed Under Special Nuclear Material License No SNM-21, March 3, 1982.
- 991. Rockwell International Report, FDP-704-990-002, Dismantling Plan for KEW Facility (Bldgs 073, 123, and 793), October 17, 1974.
- 992. Rockwell International Report, N001TI000200, Long-Range Plan for Decommissioning Surplus Facilities at the Santa Susana Field Laboratories, Date Unknown.
- 993. Rockwell International Report, N704SRR990027, Final Radiation Survey of the NMDF, December 19, 1986.

- 994. Rockwell International Report, N704TI990066, Plutonium Concentrations in Soil Samples from the Nuclear Material Development Facility, August 6, 1986.
- 995. Rockwell International Telephone Conversation Record from W. Smith to B. F. Ureda, Re: Building 003 Contamination, July 2, 1982.
- 996. Rockwell International, "Summary Report of Ambient Exposure Rate Measurements at the L-85 Research Reactor Facility After Repair of Concrete Floor," February 2, 1987.
- 997. Rockwell International, 82ESG-224 Enclosure, Energy Systems Group Effluent Monitoring Report, Special Nuclear Material License SNM-21, Date unknown.
- 998. Rockwell International, A4CM-AN-003, Area IV Characterization Survey Plan, March 30, 1994.
- 999. Rockwell International, AI-76-21, Environmental Impact Assessment of Operations at Atomics International Under Special Nuclear Materials License No. SNM-21, April 30, 1976.
- 1000. Rockwell International, AI-ERDA-13159, "KEWB Facilities Decontamination and Disposition Final Report," February 25, 1976.
- 1001. Rockwell International, Area IV Radiological Characterization Survey, A4CM-ZR-0011, Rev. A, August 15, 1996, pp. 22-24.
- 1002. Rockwell International, Area IV Radiological Characterization Survey, Final Report, Volume I, Report No. A4CM-ZR-0011, Revision A, August 15, 1996, pp. 40; Table C-1, p. 4; Table D-1, pp. 4, 11, 18, 25, 32, 39, 46, 53.
- 1003. Rockwell International, Building 4028 Demolition Photo, Photograph Number ETEC-9/22/97-395366, September 22, 1997.
- 1004. Rockwell International, Construction Specification for Sodium Storage Facility Building 014, Santa Susana Facility, Ventura County, California, Specification No. 303-014-1, May 10, 1977.
- 1005. Rockwell International, Decontamination and Decommissioning (D&D) of the Uranium Carbide Fuel Facility Building T005, 005-AN-002, September 28, 1993.
- 1006. Rockwell International, Document N001DWP000024, "Radiological Decontamination of Building 029," July 31, 1989.
- 1007. Rockwell International, Document N001ER000017, Rev. C., Nuclear Operations at Rockwell's Santa Susana Field Laboratory A Factual Perspective, May 30, 1991.
- 1008. Rockwell International, Document N001SRR140120, "Tritium Production and Release to Groundwater at SSFL," December 6, 1991.
- 1009. Rockwell International, Document N704TI990044, "Radiological Survey Results Release to Unrestricted Use, Building 024, SSFL," November 28, 1978.
- 1010. Rockwell International, Document No. GEN-AR-0023, An Environmental, Health, and Safety Self-Assessment of the Energy Technology Engineering Center, Volume 2, March 18, 1991.
- 1011. Rockwell International, Document No. N001ER000017, Nuclear Operations at Rockwell's Santa Susana Field Laboratory A Factual Perspective, December 20, 1989.
- 1012. Rockwell International, Document No. N001TI000098, Annual Review of Radiological Controls 1977, May 27, 1980.
- 1013. Rockwell International, Document No. RI/RD90-118P, Decontamination and Decommissioning of Hot Laboratory, Building 020 SS, Volume 1, Technical Proposal for Complication of Task, March 31, 1990.
- 1014. Rockwell International, Document No. RI/RD90-132, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites, 1989, May 1990.
- 1015. Rockwell International, Document No. RI/RD93-125, Rocketdyne Division Annual Site Environmental Report 1992, December 14, 1993.
- 1016. Rockwell International, Draft Radioactive Materials Disposal Facility Leach Field Environmental Assessment, January 1981, p. 5.
- 1017. Rockwell International, Drawing No. GEN-CA-0001, ETEC Site Map, February 19, 1991.
- 1018. Rockwell International, Enclosure 2 to 87RC02380, Rockwell Division, Rockwell International, Transuranic Waste Handling and Packaging Plan, February 27, 1987.
- 1019. Rockwell International, Environment, Safety, and Health Long Range Plan II, N001PMP000008, September 13, 1988.

- 1020. Rockwell International, Environmental Impact Assessment of Operations at Atomics International Under Special Nuclear Materials License No. SNM-21, AI-76-21, April 30, 1976.
- 1021. Rockwell International, Environmental Monitoring Program Plan, Santa Susana Field Laboratory, Area IV, ER-AN-0006, September 30, 1992.
- 1022. Rockwell International, ESG-81-30, Onsite Radiological Contingency Plan for Rockwell International Operations Licensed Under Special Nuclear Material License No. SNM-21, August 28, 1981.
- 1023. Rockwell International, ESG81-30, Onsite Radiological Contingency Plan for Rockwell International Operations Licensed Under Special Nuclear Material License No. SNM-21, March 3, 1982.
- 1024. Rockwell International, ESG-82-33, Health and Safety Sections for Renewal Application of the Special Nuclear Materials License SNM-21, Docket 70-25, Issued to Energy Systems Group of Rockwell International, June 5, 1984.
- 1025. Rockwell International, FDP-704-990-002, Dismantling Plan for KEWB Facility (Bldgs 073, 123 and 793), October 17, 1974.
- 1026. Rockwell International, Internal Letter Re: Building 023 Soil Sample Results, October 13, 1993.
- 1027. Rockwell International, Internal Letter, Exposure Measurements with Analytical X-Ray Machine, Tuttle, R. J. to Isotopes Committee, dated November 10, 1980.
- 1028. Rockwell International, N001T1000200, Long-Range Plan for Decommissioning Surplus Facilities at the Santa Susana Field Laboratories, Undated?
- 1029. Rockwell International, N704SRR990029, "Final Decontamination and Radiological Survey of Building T029," June 28, 1990.
- 1030. Rockwell International, Nuclear Operations at Rockwell's Santa Susana Field Laboratory A Factual Perspective, N001ER000017, December 1989, Rev. C May 30, 1991, p. 29.
- 1031. Rockwell International, Nuclear Operations at Rockwell's Santa Susana Field Laboratory A Factual Perspective, December 20, 1989.
- 1032. Rockwell International, Photo 7704-621252, Undated, HDMS00015748.
- 1033. Rockwell International, Photograph Number 7704-62920, June 15, 1977, HDMSP 00015902.
- 1034. Rockwell International, Photograph of SSFL Building 44 RMDF Clean Shop, circa 1990, HDMSP00048945.
- 1035. Rockwell International, Procedure for Dismantling and Decontaminating the L-85 Reactor Facility, N001DWP000002, May 21, 1980.
- 1036. Rockwell International, Radiation Survey Report, Building T040, (internal document), February 1996.
- 1037. Rockwell International, Radioactive Materials Disposal Facility Leach Field Evaluation Report, ESG-DOE-13365, February 23, 1982, pgs. 9-10.
- 1038. Rockwell International, Radiological Survey Results Interim Status, Building 059, Santa Susana Field Laboratory, N704TI990043, November 28, 1978.
- 1039. Rockwell International, Report No. ESG-79-7, Environmental Monitoring and Facility Effluent Annual Report 1978, April 1979.
- 1040. Rockwell International, Report No. ESG-81-17, Environmental Monitoring and Facility Effluent Annual Report 1980, May 27, 1981.
- 1041. Rockwell International, Report No. ESG-82-21, Environmental Monitoring and Facility Effluent Annual Report 1981, July 15, 1982.
- 1042. Rockwell International, Report No. ESG-83-17, Environmental Monitoring and Facility Effluent Annual Report 1982, June 1983.
- 1043. Rockwell International, Report No. ESG-84-9, Environmental Monitoring and Facility Effluent Annual Report 1983, March 1984.
- 1044. Rockwell International, Report No. RI/RD85-123, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites 1984, March 1985.
- 1045. Rockwell International, Report No. RI/RD86-140, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites 1985, April 1986.
- 1046. Rockwell International, Report No. RI/RD87-133, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites 1986, March 1987.
- 1047. Rockwell International, Report No. RI/RD88-144, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites 1987, March 1988.

- 1048. Rockwell International, Report No. RI/RD89-139, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites 1988, May 1989.
- 1049. Rockwell International, Report No. RI/RD90-132, Environmental Monitoring and Facility Effluent Annual Report De Soto and Santa Susana Field Laboratories Sites 1989, May 1990.
- 1050. Rockwell International, Report No. RI/RD91-136, Environmental Monitoring Annual Report Santa Susana Field Laboratory, De Soto, and Canoga Sites 1990, June 20, 1991.
- 1051. Rockwell International, Report No. RI/RD92-138, Environmental Monitoring Annual Report Santa Susana Field Laboratory and De Soto Sites 1991, September 30, 1992.
- 1052. Rockwell International, Report No. RI/RD93-125, Environmental Monitoring Annual Report Santa Susana Field Laboratory and De Soto Sites 1992, December 14, 1993.
- 1053. Rockwell International, Report No. RI/RD94-126, Annual Site Environmental Report Santa Susana Field Laboratory and De Soto Sites 1993, October 21, 1994.
- 1054. Rockwell International, Report No. RI/RD95-153, Annual Site Environmental Report Santa Susana Field Laboratory and De Soto Sites 1994, September 30, 1995.
- 1055. Rockwell International, Report No. RI/RD96-140, Annual Site Environmental Report Santa Susana Field Laboratory and De Soto Sites 1995, Date Unknown.
- 1056. Rockwell International, Report of Radiation Survey of the FCEL Reactor Facility in Support of Request to Terminate Facility License CX-17 and to Release the Facility for Unrestricted Use, Docket No. 50-147, April 30, 1980.
- 1057. Rockwell International, Revised TRUMP-S Project Radioactive Materials Usage Application, 190TI000001, October 31, 1989.
- 1058. Rockwell International, Rocketdyne Division Annual Site Environmental Report Santa Susana Field Laboratory and DeSoto Sites 1992, RI/RD93-125, Revision A, December 14, 1993.
- 1059. Rockwell International, Rocketdyne Division Environmental Monitoring and Facility Effluent Annual Report, De Soto and Santa Susana Field Laboratories Sites 1989, RI/RD90-132, May 1990. p. II-14
- 1060. Rockwell International, Rocketdyne Division, Application for Renewal, State of California Broad Scope "A" Radioactive Materials License #0015-70, RI/RD-93-160, Exhibit 10: Inventory of Radioactive Sources, Revised August 7, 1995, p. 6.
- 1061. Rockwell International, Rocketdyne Division, Area IV Radiological Characterization Survey, A4CM-ZR-0011, Rev. A, August 15, 1996.
- 1062. Rockwell International, Safety Analysis for Building T020, Operations, TRUMP-S, 190ER000011, December 4, 1989.
- 1063. Rockwell International, Santa Susana Field Laboratory Radioactive Decontamination Trailer Piping, Drawing No. PEWR 75732-RI, March 3, 1977.
- 1064. Rockwell International, Site Development Plan 1977-1981, United States Energy Research and Development Administration, Liquid Metal Engineering Center, June 1975.
- 1065. Rockwell International, Sodium Reactor Experiment Decommissioning Final Report, ESG-DOE-13403, August 15, 1983, pp. 166, 175, 195.
- 1066. Rockwell International, Status of Material in B/014, circa April 1994.
- 1067. Rockwell International, Telephone Conversation Record from W. F. Heine to B. Chandler, re: Shipment of SRE Fuel to Savannah River, December 11, 1974.
- 1068. Rockwell International, TRUMP-S Test Program Nuclear Materials Management Plan, 190NMP000001, October 17, 1989.
- 1069. Rockwell International, Underground Tank Removal Reports, Volume I of II, July 13, 1994.
- 1070. Rockwell International, Use Authorization No. 5, Impact Tests of Normal ZrH Fuel, February 25, 1970.
- 1071. Rockwell International, Use Authorization No. 83, Use of DD Electronics Gamma Densitometer, November 7, 1974.
- 1072. Rouse, Leland, NRC Letter Re: SNM-21, Amendment No. 1, October 7, 1987.
- 1073. Rowles, Jim, Internal Letter Re: Radiation Safety Incident Report, SSFL T641, June 20, 1989.
- 1074. Rupo, Roger K., Confirmatory Survey, 17th Street Drainage Area, Santa Susana Field Laboratory, Boeing-Rocketdyne, Ventura County, California, 1999, pgs. 1-2.

- 1075. Rutherford, P., Area IV Radiological Characterization Survey Final Report, Energy Technology Engineering Center Report No. A4CM-ZR-0011, Revision A, August 15, 1996, pp. 38, 54,-64.
- 1076. Rutherford, P., Area IV Radiological Characterization Survey Final Report, ETEC Report No. A4CM-ZR-0011, August 15, 1995, pp. 21-24, Figure B-181.
- 1077. Rutherford, P.D., Exemption from Decommissioning Docket Process, Rocketdyne Building T005, July 24, 1996
- 1078. Rutherford, P.D., Rockwell Internal Letter Re: Radiological Incident Report A0661, June 7, 1995.
- 1079. Rutherford, P.D., Site Environmental Report for Calendar Year 1998, DOE Operations at Rocketdyne Propulsion & Power, RD99-115, The Boeing Company, Rocketdyne Propulsion & Power, September 22, 1999, p. 2-10.
- 1080. Rutherford, Phil, Email Correspondence to Craig Cooper (EPA), January 4, 2011.
- 1081. Rutherford, R., Rockwell International Incident Report, re: Verification Survey, September 28, 1998.
- 1082. S8ER Fuel Failures, Unknown Author, October 5 1999, HDMSp01708835.
- 1083. Saba, V. B., Rockwell Internal Letter to Radiation and Nuclear Safety Group, re: Radiological Safety Incident Report, SSFL Building 059, Reactor Vault, January 31, 1989.
- 1084. Saba, V. B., Rockwell Internal Letter to Radiation and Nuclear Safety Group, re: Radiological Safety Report, SSFL Building 059, April 12, 1990.
- 1085. Saba, V. B., Rockwell Internal Letter to Radiation Protection and Health Physics Services, re: Radiological Safety Report, Contaminated Respirator Laboratory Washer, December 17, 1991.
- 1086. Santa Susana Area IV Aerial Photograph, January 7, 1963, University of California Santa Barbara, accessed at http://www.dtsc-ssfl.com/files/lib_aerial_photos/aerial_photos/1963_January07.pdf.
- 1087. Santa Susana Area IV, Atomics International/Energy Systems Group Planning Maps, March 1962–November 1992.
- 1088. Santa Susana Facility Bldg Hydrogen Recombiner Test Facility Canopy Roof Plan & Details, 303-816-S1, Atomics International, Unknown Date.
- 1089. Santa Susana Field Laboratory Electric Meter Installation Sub Station Number 726 Building 026 and 1250 HP Motor Generator, 303-GEN-E266, Rockwell International Corporation, June 1, 1977.
- 1090. Santa Susana Field Laboratory Site Development Plan, Existing Development, Sanitary Sewage System, Rockwell International Corporation, Unknown date, HDMSE00688360.
- 1091. Sapere Consulting, Inc. and The Boeing Company, Historical Site Assessment of Area IV Santa Susana Field Laboratory, Ventura County, California, Volume 2 – Area IV Site Summaries, May 2005. Citing Rockwell International Report, N704SRR9900124, Plutonium Concentrations in Soil around Drain Lines at NMDF, April 3, 1986.
- 1092. Sapere Consulting, Inc. and The Boeing Company, Historical Site Assessment of Area IV Santa Susana Field Laboratory, Ventura County, California, Volume 2 Area IV Site Summaries, May 2005, p. I-39.
- 1093. Sayer, W.B., Atomics International Internal Letter Re: In-box Filter Systems at Building 055, July 22, 1968.
- 1094. Schaeppi, W., Boeing Internal Letter, Re: Unauthorized Movement of Radioactive Material, March 23, 1998.
- 1095. Schaubert, V. and Allen, D., Special Nuclear Material Control Program for SEFOR Fuel Decladding, Date Unknown.
- 1096. Schaubert, V. J., Nuclear Materials Management Plan for the HERF Program, Rockwell International Report No. N001NMP000003, October 31, 1989, pp. 3-4.
- 1097. Schelin, Earl, Letter Re: Use Agreement for Relocation of Shipping & Receiving to Buildings 641 and 030, March 21, 1988.
- 1098. Schiffman, Joel, United Stated Department of Energy Environmental Survey Report, June 16, 1989.
- 1099. Schlapp, F.W., Atomics International Internal Letter, Subject: Radiation Monitoring Equipment in Dormant Storage, July 3, 1962.
- 1100. Schleck, Lennie, Lead Work Plan for Construction Project, Project Title B4363 & 4353 Demolition, December 8, 2000.
- 1101. Schrag, F., Job Improvement Request, Rockwell International, June 3, 1986.
- 1102. Schrag, F.C., Internal Letter Re: Building 373, SSFL, June 19, 1987.
- 1103. Schrag, F.C., Job Improvement Request, May 22, 1987.

- 1104. Schrag, F.C., Rockwell International Internal Letter Re: Estimate for Rectification of NMDF, Building 055, December 7, 1987.
- 1105. Schumann, G., Atomics International Document NSA-001-14-001, KEWB Deactivation Nuclear Safety Analysis, June 4, 1969.
- 1106. Science Applications International Corporation, Final RCRA Facility Assessment Report for Rockwell International Corporation, Rockwell Division, Santa Susana Field Laboratory, Ventura County, California, Technical Enforcement Support at Hazardous Waste Sites, TES 11, DCN: TZ4-R09015-RN-M21460, May 1994, p. 7-14.
- 1107. Scope of Work and Specifications for Earthwork for Excavation of the RMDF Leaching Field, Santa Susana Facility, Ventura County, California, Construction Specification, 303-021-03, Rockwell International, April 17, 1978.
- 1108. Scott, Randal, Memorandum Re: Survey Status Report, July 5, 1988.
- 1109. Sessions, Health Physicist, KEWB and AE-6 Log Book, pg 44-50.
- 1110. Sessions, S.D., "Radiological Safety Incident Report A0533, SETF High Bay, Building 24," March 21, 1962.
- 1111. Sessions, S.D., Atomics International Internal Letter, re: Radiological Safety Incident Report, SETF High Bay, Bldg 24, 3/6/62, March 21, 1962.
- 1112. Sessions, S.D., Atomics International Inter-Office Letter Re: Radiological Safety Incident Report A0512, November 17, 1960.
- 1113. Shah, S. N., Final Report, Decontamination and Decommissioning of Fuel Storage Facility 4064, Boeing Report EID-04600, September 11, 1999, pp. 14-18.
- 1114. Shah, Satish, N., Final Report Decontamination & Decommissioning of Interim Storage Facility 4654, EID-04364, The Boeing Company, May 20, 1999, p. 5.
- 1115. Shannon, J. W., Atomics International Internal Letter, re: Radiological Safety Incident Report, SRE Hi Bay Area, 4/11/60, April 11, 1960.
- 1116. Shao, J., Letter Re: Soil Sampling Results for Buildings 468 & 020 at SSFL, August 3, 1998.
- 1117. Shoemaker, Operating Specification Radioactive Materials Disposal Unit, February 24, 1964.
- 1118. Sierra Geoscience, Inc., Report on UST Closure, Tank #UT-71 Building 4183, Santa Susana Field Laboratory, Ventura County, California, January 11, 1999, p. 2.
- 1119. Sierra Geoscience, Inc., Report on UST Closure, Tank UT-74, The Boeing Company Building 4003, Rocketdyne Propulsion and Power, Santa Susana Field Laboratory, Ventura County, California, April 6, 2001, pp. 1-5.
- 1120. Site Environmental Report for Calendar Year 2008, DOE Operations at The Boeing Company, Santa Susana Field Laboratory, Area IV, The Boeing Company, September 2009, p. 2-4.
- 1121. Skoholt, Donald, North American Rockwell Corporation, Docket No. 50-375, Facility License No R-118, January 5, 1972.
- 1122. Smith et al., Production of Fuel Assemblies for the Materials Texting Reactor Mock-Up Critical Experiments, Oak Ridge National Laboratory, April 9, 1951, p. 9.
- 1123. SNAP 8 Ground Prototype Test Facility Building 059, fragment, circa 1980, p.1.
- 1124. Sontag, S., Passivation of Remaining Sodium in SRE Core Vessel, Bldg. 143, Detailed Working Procedure, North American Rockwell Report No. N704-DWP-990-009, October 10, 1975.
- 1125. Soucy, R.C., ETEC Waste Verification Plan for the Hazardous Waste Management Facility (HWMF), GEN-AN-0041, Energy Technology Engineering Center, November 29, 1993, p. 5.
- 1126. Southward, B. G., Atomics International Internal Letter, re: Investigation of Incident at SRE Tab Exposure Facility, August 19, 1966.
- 1127. SSFL Area IV, Atomics International Nuclear Development Field Laboratories, Industrial Planning Maps, January 1967, April 1971.
- 1128. SSFL Area IV, Bldg. 133, Trench Installation Plan, 303-133-S4, Rockwell International, November 1, 1988.
- 1129. SSFL Area IV, Bldg. 359, Water/Sewer Distribution, Demolition & Installation, M359-68339-MI, Rockwell International, December 12, 1966, HDMSe00455082.
- 1130. SSFL Area IV, ETEC Industrial Planning Maps, 1962-1992.
- 1131. Stafford, K.T., ETEC, Site Consolidation Assessment, April 16, 1987.

- 1132. Stamp, S.R., AEC Letter Re: Approval to Operate SCA-4A in the SNAP Critical Facility, Building 012, February 12, 1970.
- 1133. Stamp, S.R., Letter Re: Temporary Use of Building 4042 at Santa Susana, February 14, 1973.
- 1134. Stamp, Stanley, Letter Re: "Decontamination and Disposition of ERDA Facilities," March 3, 1976.
- 1135. State of California, Department of Public Health, Radioactive Material License No. 0015-59 to Atomics International Division, North American Aviation, Inc., dated September 11, 1963.
- 1136. State of California, Radioactive Material License, License No. 0015-70, November 12, 1987, p. 3.
- 1137. Stelle, A. M., RMDF Leach Field Mapping and Assessment of Contamination, N704ER990006, Rockwell International, November 22, 1976.
- 1138. Stelle, A. M., SRE Activity Requirement No. 27, D & D of Building 143 Retention Pond and Sanitary Sewer, Rockwell International Report No. N704ACR990024, September 14, 1981, p. 6.
- 1139. Stelle, A.M., Facilities Dismantling Plan for Building 10 (S8ER), N704FDP990005, Rockwell International, September 1976, p. 3.
- 1140. Stewart, B., Trench Logs B8TS01-06 at B008, MWH, April 4, 2001.
- 1141. Stewart, B., Trench Logs L2TS02 and L2TS03, MWH, May 4, 2001.
- 1142. Stormwater Pollution Prevention Plan for Santa Susana Field Laboratory, Revision 2, MWH, June 2006, Figure 7A.
- 1143. Strausberg, S., Gardner, W. J., Guon, J., Luebben, T. E., and Mills, T. H., Modified Hot Cave Facility for Reprocessing Experiments, Atomics International Report No. NAA-SR-2687, June 30, 1958, p.14.
- 1144. Sturtevant, W.C. et al., Building 059 Remediation Program, Phase II Reactor Test Cell Remediation, EID-04422, June 25, 1999, pp. 24-25.
- 1145. Subbraman, G. and Oliver, B. M., Final Decontamination and Radiological Survey of the Building T064 Side Yard, Rockwell International, N704SRR990031, October 30, 1990, pp. 5, 56-57.
- 1146. Susana Bldg 606 Yard Area Electrical Plan, 303-606-E2, Rockwell International, Unknown Date.
- 1147. Tavasoli, K., Rockwell International Internal Letter Re: SSFL Aboveground Storage Tank/Pressure Vessel Inspection, May 18, 1993.
- 1148. Technical Site Information Energy Technology Engineering Center (ETEC), GEN-AT-0027, Revision B, Rockwell International Corporation, August 1993, p. b-31.
- 1149. Tessier, M.J., Letter Re: Long Range D&D Plan for NE Contaminated Facilities, October 24, 1986.
- 1150. Tetra Tech EM Inc., "Final Oversight Verification and Confirmation Radiological Survey Report for Buildings T-012, T-029, and T-363," December 20, 2002.
- 1151. Tetra Tech EM Inc., Final Oversight Verification and Confirmation Radiological Survey Report for Buildings T-011, T-019, T-055, and T-100, December 20, 2002, p. 11.
- 1152. Tetra Tech EM, Inc., Final Rocketdyne Technical Support and Field Oversight Document Review for Buildings T009, T011, T019, T055, and T100, December 20, 2002, pp. 5-7.
- 1153. Tetra Tech EM, Inc., Zone III EPA Region 9, Final Rocketdyne Technical Support and Field Oversight Document Review for Buildings T-012, T-023, T-028, T-029, and T-363, December 20, 2002.
- 1154. The Boeing Company Closure Plan Hazardous Waste Management Facility, Buildings T029 and T133, Santa Susana Field Laboratory, Ventura County, California, MWH, December 2003, p. 3-5.
- 1155. The Boeing Company Radiation Incident Database, 2010.
- 1156. The Boeing Company Radiation Safety Records Management System (File Drawer 133-B), B/4100 Septic Tank, 2001.
- 1157. The Boeing Company, "Building 4024 Decontamination and Decommissioning Engineering Evaluation/Cost Analysis," May 1, 2007.
- 1158. The Boeing Company, "Site Environment Report for Calendar Year 2007 DOE Operations at The Boeing Company Santa Susana Field Laboratory, Area IV," September 2008.
- 1159. The Boeing Company, A Radiological History of the Sodium Disposal Facility, April 25, 2000, p. 1.
- 1160. The Boeing Company, Building Reconnaissance Report, Building 320, November 15, 1996, pp. 31-32.
- 1161. The Boeing Company, Engineering Evaluation & Cost Analysis (EE/CA) Community Meeting Microsoft PowerPoint® Presentation, February 21, 2007.
- 1162. The Boeing Company, Incident Report No. 01684, February 26, 2003.
- 1163. The Boeing Company, Radiation Safety Records Management System.

- 1164. The Boeing Company, Radioactive Materials Handling Facility Current Radiological Status, March 16, 2007.
- 1165. The Boeing Company, Radiological Survey of Donated Trailer Sections at the Wildlife Way Station, February 16, 2000.
- 1166. The Boeing Company, RD04-170, Site Environmental Report for Calendar Year 2003 DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, September 2004.
- 1167. The Boeing Company, RD05-176, Site Environmental Report for Calendar Year 2004 DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, September 2005.
- 1168. The Boeing Company, Rocketdyne Environmental Affairs, Building 4010 SNAP-8 Experimental Reactor, February 10, 2000, pgs. 1-2.
- 1169. The Boeing Company, Rocketdyne Environmental Affairs, Building 4019 SNAP Flight System Critical Facility, January 8, 2003, p. 1.
- 1170. The Boeing Company, Rocketdyne Propulsion & Power, Site Environmental Report for Calendar Year 2003 DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, RD04-170, September 2004, p. 5-13.
- 1171. The Boeing Company, Rocketdyne Propulsion & Power, Site Environmental Report for Calendar Year 2000 DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, RD00-152, September 2001, p. 2-9.
- 1172. The Boeing Company, Rocketdyne Propulsion and Power DOE Operations Annual Site Environmental Report 1997, A4CM-ZR-0012, November 23, 1998.
- 1173. The Boeing Company, Rocketdyne Propulsion and Power DOE Operations Annual Site Environmental Report 1998, RD99-115, September 22, 1999.
- 1174. The Boeing Company, Rocketdyne, Site Environmental Report for Calendar Year 1999 DOE Operations at The Boeing Company Rocketdyne, RD00-159, September 2000, p. 2-8.
- 1175. The Boeing Company, RS-00025, Building 4024 Concrete Sampling, December 15, 2004.
- 1176. The Boeing Company, Santa Susana Field Laboratory, Site Environmental Report for Calendar Year 2008 DOE Operations at The Boeing Company Santa Susana Field Laboratory Area IV, September 2009, p. 2-4.
- 1177. The Boeing Company, Site Environment Report for Calendar Year 2009, DOE Operations at The Boeing Company, Santa Susana Field Laboratory, Area IV, September 2010, p. 2-5.
- 1178. The Boeing Company, Site Environment Report for Calendar Year 2007, DOE Operations at The Boeing Company Santa Susana Field Laboratory, Area IV, September 2008, p. 2-7.
- 1179. The Boeing Company, Site Environmental Report for Calendar Year 2002, DOE Operations at The Boeing Company, Rocketdyne Propulsion & Power, Report No. RD02-148-01, September 2003, pp. 3-8, 5-13.
- 1180. The Boeing Company, Site Environmental Report for Calendar Year 2003, DOE Operations at The Boeing Company, Rocketdyne Propulsion & Power, Report No. RD04-170, September 2004, pp. 3-9, 5-13.
- 1181. The Boeing Company, Site Environmental Report for Calendar Year 2006 DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, September 2007.
- 1182. The Boeing Company, Site Environmental Report for Calendar Year 2007 DOE Operations at The Boeing Company Rocketdyne Propulsion & Power, September 2008.
- 1183. The Boeing Company, Sodium Component Test Installation (SCTI) Demolition Final Report, EID-08336, October 1, 2003. p. 36.
- 1184. The Boeing Corporation, Site Environmental Report for Calendar Year 1998, DOE Operations at Rocketdyne Propulsion & Power, RD99-115, dated September 22, 1999, p. 6-5.
- 1185. The Soil Guys, Letter Re: Soil Engineering Testing of Soil Compacted at SSFL Area IV Facility, Building B-4032, Ventura County, California, May 1, 2003.
- 1186. Thiele, A.W., Atomics International Document NAA-SR-MEMO-7029, SNAP 8 Critical Experiment Summary Hazards Report and Operations Manual, February 1, 1962.
- 1187. Tomlinson, R.L., Atomics International NAA-SR-MEMO-5103, Experimental Shielding Evaluation of the SETF Using SDR-I and SNAP 10 as Radiation Sources, March 29, 1960.
- 1188. Townsend, R. E., and C. L. Young, Atomics International Internal Letter, re: Radiological Safety Incident Report, August 23, 1964.
- 1189. Townsend, R. I., Atomics International Internal Letter, re: Radiological Safety Incident Report, High Bay Area of SRE, Building 143, Santa Susana, December 18, 1964.

- 1190. Trippeda, Dan, Email Correspondence Re: 353-Septic Pumping, February 5, 2001.
- 1191. Trippeda, Dan, Email Correspondence Re: 373 Septic Tank, January 3, 2001.
- 1192. Tschaeche, A.N., Atomics International Internal Correspondence, Re: Incident Report, Santa Susana Bldg. 028, August 6, 1965, August 30, 1965.
- 1193. Tschaeche, A.N., Atomics International Internal Correspondence, Subject: Sodium Fire at SS-021 on June 26, 1968, July 2, 1968.
- 1194. Tschaeche, A.N., Atomics International Internal Letter Re: Building 173 Evaluation for Radiological Emergency Procedure, July 13, 1965.
- 1195. Tschaeche, A.N., Internal Letter Re: Dose Rates for Handling Materials in Building 363, June 3, 1965.
- 1196. Tschaeche, A.N., Internal Letter Re: Dose Rates from Moderator Can Samples from SRE at Building 363, May 5, 1965.
- 1197. Tuttle, R. J., Post-Remediation Soil Sampling and Analysis for the Former Sodium Disposal Facility, ETEC Report No. 886-ZR-0009 Rev. A, January 13, 1997, pp. 3-5.
- 1198. Tuttle, R. J., Rockwell Internal Letter to J. A. Chapman, re: Radiological Safety Incident Report, T059 Vacuum Duct Room, January 27, 1988.
- 1199. Tuttle, R. J., Tritium Production and Release to Groundwater at SSFL, Rockwell International Report No. N001SRR140120, December 6, 1991, pp. 9-17, 46-48, 54.
- 1200. Tuttle, R., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 88, March 4, 1975.
- 1201. Tuttle, R., Authorization No. 112, January 16, 1978.
- 1202. Tuttle, R.J. Tritium Production and Release to Groundwater at SSFL, Rockwell International, Rocketdyne Division, September 25, 1992, pgs. 61-62.
- 1203. Tuttle, R.J., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 95, Issue Date, July 8, 1975, Expiration Date: July 8, 1976.
- 1204. Tuttle, R.J., Authorization for Use of Radioactive Materials or Radiation Producing Devices, Authorization No. 101, April 8, 1976.
- 1205. Tuttle, R.J., Authorization No. 117, August 22, 1978.
- 1206. Tuttle, R.J., Authorization No. 118, August 22, 1978.
- 1207. Tuttle, R.J., Authorization No. 118A, August 22, 1979.
- 1208. Tuttle, R.J., Authorization No. 118B, August 22, 1980.
- 1209. Tuttle, R.J., Internal Letter Re: Study of Possible Source of Radioactive Contamination in T363, September 9, 1994.
- 1210. Tuttle, R.J., Listing of Locations in SSFL Area IV Associated with Radioactive Materials, September 1989, p. 5.
- 1211. Tuttle, R.J., Rockwell Internal Letter Re. Exemption from NESHAPs Approval to Construct for Operation of Portable Ventilators for T024 Decon Tent, January 14, 1997.
- 1212. Tuttle, R.J., Rockwell International Document No. SSWA-AR-0009, Building T654 Supplemental Final Radiological Survey Plan, December 4, 1996.
- 1213. Tuttle, R.J., Rockwell International Internal Correspondence, Re: Contaminated Runoff from RMDF Leach Field, March 2, 1978.
- 1214. Tuttle, R.J., Rockwell International Internal Letter Re: Radiography Incident A-0058, July 5, 1977.
- 1215. Tuttle, R.J., Rockwell International Internal Letter Re: Sources of Radioactively Contaminated Water at Santa Susana, February 17, 1981.
- 1216. Tuttle, R.J., Rockwell International Report RI/RD92-186, Tritium Production and Release to Groundwater at SSFL, December 1, 1992.
- 1217. Tuttle, R.J., Tritium Production and Release to Groundwater at SSFL, RI/RD92-186, Rockwell International, December 1, 1992, pgs. 4-10-4-11.
- 1218. Tuttle, R.J., Tritium Production and Release to Groundwater at SSFL. Safety Review Report No. RI/RD92-186, December 1, 1992, pp. 3-15 – 3-23.
- 1219. Tworek, D. D., Atomics International Internal Letter, re: Incident Report, "Poor Man's Hot Cell," 9-18-64, October 6, 1964.

- 1220. Tworek, D.D., Atomics International Internal Letter, re: Incident Report, Contaminated Equipment Repair Facility (CERF) Building 163, 12-21-64, January 8, 1965.
- 1221. U.S. Atomic Energy Commission, Facility License No. CX-17, Amendment No. 2, Washington, D.C., May 28, 1962.
- 1222. U.S. Atomic Energy Commission, Letter from M. Klein, AEC, to J. J. Flaherty, Atomics International, dated October 29, 1969.
- 1223. U.S. Department of Energy Environment, Safety and Health Office of Environmental Audit, Environmental Survey Preliminary Report, DOE Activities at Santa Susana Field Laboratories, Ventura California, February 1989, p. 3-13.
- 1224. U.S. Department of Energy letter from L. Marik to M. Jensen, Rockwell International, re: ETEC Bulk Sodium, May 11, 1995.
- 1225. U.S. Department of Energy Letter from M. Lopez to M. Lee, re: Demolition of Building 064, June 25, 1996.
- 1226. U.S. Department of Energy Letter from M. Lopez to M. Lee, re: Release of Building 4064, January 31, 2005.
- 1227. U.S. Department of Energy Memorandum from A. J. Whitman to E. Keheley, Re: Remedial Action Certification on the Sodium Reactor Experiment (SRE) and the Hot Cave (Bldg. 003, Santa Susana Field Laboratory, November 15, 1983.
- 1228. U.S. Department of Energy, 17th Street Drainage Area, Energy Technology Engineering Center (ETEC) Website, http://www.etec.energy.gov/History/17_Street.html, accessed October 12, 2010, p.1.
- 1229. U.S. Department of Energy, Certification for Unrestricted Use of the Sodium Reactor Experiment (SRE) Complex and the Hot Cave Facility (Bldg. 003), July 23, 1985.
- 1230. U.S. Department of Energy, Draft Docket for the Release of Building 4886 as Part of the Energy Technology Engineering Center Closure, Report No. RD99-179R1, DOE/CD-ETEC-4886 (Revised), September 1999 (Revised March 2000), pp. 9-11 (886-ZR-0007).
- 1231. U.S. Department of Energy, Draft Docket No. ETEC-028, March 26, 1996.
- 1232. U.S. Department of Energy, Environmental Assessment Kalina Cycle Demonstration Power Plan at the Energy Technology Engineering Center Santa Susana Field Laboratory, October 1990, pgs. 2, 23.
- 1233. U.S. Department of Energy, Hazardous Waste Management Facility, Energy Technology Engineering Center (ETEC) Website, http://www.etec.energy.gov/History/Sodium/HWMF.html, accessed November 1, 2010, p.1.
- 1234. U.S. Department of Energy, Instrument Calibration Lab, Energy Technology Engineering Center (ETEC) Website, http://www.etec.energy.gov/History/Major-Operations/Support-Ops/Instrument-Calibration.html, accessed November 25, 2009, p.1.
- 1235. U.S. Department of Energy, Oakland Operations Office, Environmental Restoration, Draft Docket for the Release of Building 4654 at the Energy Technology Engineering Center, DOE/CD-ETEC-654, RD99-158, May 1999.
- 1236. U.S. Department of Energy, Oakland Operations Office, Environmental Restoration, Certification Docket for the Release of Building T012 at ETEC, DOE/CD-ETEC-012, November 26, 1997, p. 5.
- 1237. U.S. Department of Energy, Shield Text Experiments, Energy Technology Engineering Center (ETEC) Website, http://www.etec.engery.gov/History/Major-Operations/Shield-Text.html, accessed April 30, 2010, p.1.
- 1238. U.S. Department of Energy, Small Component Test Loop, Energy Technology Engineering Center (ETEC) Website, http://www.etec.energy.gov/History/Sodium/SCTL.html, accessed November 25, 2009, p.1.
- 1239. U.S. Department of Energy, Tiger Team Assessment Energy Technology Engineering Center, DOE/EH-0175, April 1991, pgs. 3-12–3-15.
- 1240. U.S. Environmental Protection Agency, EPA Update The U.S. EPA Announces Results of Rocketdyne's Off-Site Sampling Program of the Santa Susana Field Laboratory, July 1995, p. 1.
- 1241. U.S. Environmental Protection Agency, Santa Susana Field Laboratory Site Report, Ventura County, California, Report for Congressman Elton Gallegly, July 31, 1989, p. 33.
- 1242. U.S. EPA Report, no document number, Final Oversight Verification and Confirmation Radiological Survey Report for Buildings T-011, T-019, T-055, and T-100, December 20, 2002.
- 1243. U.S. EPA, Environmental Photographic Interpretation Center Draft Report, March 2010.
- 1244. U.S. Nuclear Regulatory Commission, Materials License, SNM-21, June 28, 1984.

- 1245. U.S. Nuclear Regulatory Commission, Materials License, SNM-21, September 15, 1977.
- 1246. U.S. Nuclear Regulatory Commission, NUREG-1077, Environmental Impact Appraisal for Renewal of Special Nuclear Material License No. SNM-21, June 1984.
- 1247. U.S. Nuclear Regulatory Commission, Rockwell International Corporation Docket No. 50-147, Order Terminating Facility License, October 1, 1980.
- 1248. United States Atomic Energy Commission, Docket No. 50-375 Facility License No. R-118, January 5, 1972.
- 1249. Unknown Author to Remley, M.E., Atomics International Internal Correspondence, Re: Radiation Safety Unit Weekly Newsletter for Period Ending May 27, 1967, June 1, 1967.
- 1250. Unknown Author, "Laboratory Status Report, Building 049," circa 1959, 1 page.
- 1251. Unknown Author, Atomics International Internal Letter, re: Incident Report, Contamination of Personnel Working on Disposal of Outworn Core Heaters, October 20, 1962.
- 1252. Unknown Author, Atomics International Internal Letter, re: Incident Report, FHM Service Pit, 6-17-64, June 24, 1964.
- 1253. Unknown Author, Atomics International Internal Letter, re: Incident Report, SRE High Bay, 12-1-64, December 2, 1964.
- 1254. Unknown Author, Atomics International, re: Radiation Safety Progress for November 1966, December 9, 1966.
- 1255. Unknown Author, Building Reconnaissance Report, Building 665, November 8, 1996.
- 1256. Unknown Author, Building T028 Familiarization, Unknown Date, BNA03532987.
- 1257. Unknown Author, Changes in STIR Operations Manual, October 15, 1965, BNA 02011149.
- 1258. Unknown Author, Data Sheet, Chronology of Fuel at RMDF, June 19, 1985, BNA00972044.
- 1259. Unknown Author, Disposal of Radioactive Materials at Atomics International, Unknown Date, p. 6.
- 1260. Unknown Author, Facility Information, Building # 028, Unknown Date, BNA01247350.
- 1261. Unknown Author, Facility Information, Building 012, Unknown Date, HDMSP001828011.
- 1262. Unknown Author, Figure 45, Building Area and Room Numbering Plan, Buildings 373 &374, March 15, 1962.
- 1263. Unknown Author, Handwritten Note: 588, 12-29-65, RMDF Yard, Unknown Date.
- 1264. Unknown Author, Industrial Security Preliminary Investigation Report, Incident A-0310, March 17, 1987.
- 1265. Unknown Author, Laboratory Status Report, Building 005, circa 1959, 3 pages.
- 1266. Unknown Author, Log Book, Building 4019, 1/20/64 to 6/3/65, January 20, 1964, HDMSP001853462.
- 1267. Unknown Author, Notes Re: T363, April 6, 1992.
- 1268. Unknown Author, Printout Re: Septic Tank 4353, October 15, 2001.
- 1269. Unknown Author, Process Hazards Analysis for the Septic Tanks and Systems Removals at Building 4353, 4373, and 4143, December 6, 2000.
- 1270. Unknown Author, RMDF Fire Preplans Structures, Unknown Date.
- 1271. Unknown Photographer, Aerial Oblique Photograph of SSFL dated November 11, 1958
- 1272. Unknown, Building 4093 L-85 (AE-6) Research Reactor, Unknown Date.
- 1273. Unknown, Building Area and Room Numbering Plan, Building 353, March 15, 1962.
- 1274. Unknown, Construction Change Request (I) G.D. Heil Inc. Building 468/B020 Yard, Date Unknown. HDMSE00233388.
- 1275. Unknown, Internal Letter Regarding "Radiation Safety Unit Weekly Newsletter for Period Ending February 13, 1967," February 23, 1967.
- 1276. Unknown, Internal Letter Regarding "Radiation Safety Unit Weekly Newsletter for Period Ending February 4, 1967," February 9, 1967.
- 1277. Unknown, Job B (B4039, B4032, and B4042) Statement of Work, March 3, 2003. HDMSP00038237.
- 1278. Unknown, Room and Area Numbering Plan Santa Susana Building 0036-0037, Snap Office Building, March 15, 1962.
- 1279. Unknown, Santa Susana Field Laboratory Radiological Facility Status, August 12, 2007.
- 1280. Unknown, SSFL Waste Generators, Undated.
- 1281. Ureda, B. and Heine, W, Facilities Dismantling Plan for SRE, Atomics International Report No. FDP-704-990-003, June 26, 1975, pp. 76-77.

- 1282. Ureda, B. and Heine, W., Facilities Dismantling Plan for SRE, Atomics International Report No. FDP-704-990-003, June 24, 1975, pp. 9, 13, 17-18.
- 1283. Ureda, B. F., Building 003 Decontamination and Disposition Final Report, AI-ERDA-13158, February 25, 1976, pp. 7-21.
- 1284. Ureda, B. F., SRE Activity Requirement 24, Decontamination of Building 163 (CERF), Rockwell International Report No. N704ACR990020, February 15, 1977, p. 2.
- 1285. Ureda, B. F., SRE Activity Requirement No. 25, Decontamination & Dismantling of Building 724 and Pad 723, Rockwell International Report No. N704ACR990021, March 28, 1977, pp. 2-5.
- 1286. Ureda, B.F., STIR Facility Decontamination and Disposition Final Report, AI-ERDA-13168, Rockwell International, August 26, 1976, p. 10.
- 1287. Use Authorization No. 94 for the Decontamination and Disposition of the Facilities Program for the SRE, issued July 8, 1975.
- 1288. Use Authorization No. 94C for the Decontamination and Disposition of the Facilities Program for the SRE, issued July 8, 1978.
- 1289. Van Dyke and Barnes, Building No. 9 Critical Experiment Facility Assembly Room Pit & Crane, Drawing No. 303-009-A9, December 16, 1957.
- 1290. Vandervort, P.S., Rockwell International Internal Letter Re: Field Radiography at LMEC-Damaged Source Tube, A0066, April 25, 1978.
- 1291. Vandiver, D.B., Letter Re: Nuclear Hazards Indemnity, July 10, 1986, and DuVal, R., Letter Re: Removal of 12 WESF Capsules from RIHL," undated.
- 1292. Vitkus, T. J. and Morton, J. R., Radiological Survey of the Building 059 Reactor Vault, Santa Susana Field Laboratory, Rockwell International, Ventura County, California, Final Report, Oak Ridge Institute for Science and Education ORISE Report No. 95/G-18, June 1995, pp. 1-2, 8-9.
- 1293. Vitkus, T. J., Independent Verification Survey Report of the Building 4059 Site (Phase B); Post Historical Site Assessment Sites, Block 1; and Radioactive Materials Handling Facility Holdup Pond (Site 4614), Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, Final Report, Oak Ridge Institute for Science and Education, June 2008, pp. 4, 10-11, A-7, A-14, B-1 – B3.
- 1294. Vitkus, T. J., Verification Survey of Buildings 005, 023, and 064 Santa Susana Field Laboratory, Rockwell International, Ventura County, California, ORISE 94/K-14, October 1994, pp. 1-4, 20.
- 1295. Vitkus, T. J., Verification Survey of the Building 059 Excavation, Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, Final Report, Oak Ridge Institute for Science and Education, March 2005, p. 8.
- 1296. Vitkus, T. J., Verification Survey of the Old Conservation Yard, Building 064 Side Yard, and Building 028, Santa Susana Field Laboratory, Rockwell International, Ventura County, California, ORISE 93/J-107, October 1993, pp. 5-11.
- 1297. Vitkus, T., Addendum to the Verification Survey Report for Building T019 and T024, Santa Susana Field Laboratory, Ventura County, California (ORISE 1996a), Oak Ridge Institute for Science and Education, February 16, 1999, pgs. 2-3.
- 1298. Vitkus, T.J. and Bright, T.L., Verification Survey of the Interim Storage Facility; Buildings T030, T641, and T013; an Area Northwest of Buildings T019, T013, T012, and T059; and a Storage Yard West of Buildings T626 and T038, Santa Susana Field Laboratory, Rockwell International, Ventura County, California, ORISE 96/C-4, Oak Ridge Institute for Science and Education, February 1996, pgs. 5-15.
- 1299. Vitkus, T.J. and Morton, J.R., Verification Survey of Building T012 Santa Susana Field Laboratory, Rockwell International, Ventura County, California, Oak Ridge Institute for Science and Education, October 1996, p. 3.
- 1300. Vitkus, T.J., Verification Survey of the Building 4059 Site (Phase B); Post Historical Site Assessment Sites, Block 1; and Radioactive Materials Handling Facility Holdup Pond (Site 4614), Santa Susana Field Laboratory, The Boeing Company, Ventura County, California, Oak Ridge Institute for Science and Education, June 2008, pgs. 1-11.
- 1301. Vitkus, T.J., Verification Survey of the Interim Storage Facility (T654), Santa Susana Field Laboratory, Rockwell International, Ventura County, California, ORISE 97-1900, Oak Ridge Institute for Science and Education, November 1997, pgs. 4, 6.

- 1302. Vitkus, T.J., Verification Survey of the Old Conservation Yard, Building T064 Side Yard, and Building T028, Santa Susana Field Laboratory, Rockwell International, Ventura County, California, Oak Ridge Institute for Science and Education, October 1993, pgs. 5-11.
- 1303. Voigt, W. R., Jr., Certification for Unrestricted Use of the Sodium Reactor Experiment (SRE) Complex and the Hot Cave Facility (Building 003), U.S. Department of Energy, July 23, 1985.
- 1304. Waite, P., Building 064 D&D Operations Final Report, ETEC Report No. SSWA-AR-0002, August 13, 1993, p. 8.
- 1305. Waite, P., Internal Letter Re: Radiological Assessment of Building 363, Bay Four, May 11, 1995.
- 1306. Waite, P.H. and P.H. Horton, Process Hazard Analysis (PHA) for RMHF Operations, EID-04446, Rev. A, The Boeing Company, Unknown Date, p. 13.
- 1307. Wallace, J. H., Radiological Survey Results Release to Unrestricted Use, Building 003, Rockwell International Report No. N704TI990063, November 9, 1982, pp. 3-7.
- 1308. Wallace, J. H., Radiological Survey Results Release to Unrestricted Use, SRE Region VIII, Rockwell International Report No. N704TI990034, May 13, 1983, pp. 3-8.
- 1309. Wallace, J. H., Radiological Survey Results Release to Unrestricted Use, SRE Region IX, Rockwell International Report No. N704TI990035, May 31, 1983, pp. 3-8.
- 1310. Wallace, J. H., Radiological Survey Results Release to Unrestricted Use, SRE Building 163, Rockwell International Report No. N704TI990039, April 8, 1982, pp. 3-7.
- 1311. Wallace, J. H., Radiological Survey Results-Release to Unrestricted use, SRE, Building 041, Rockwell International Report No. N704TI990037, November 9, 1982, pp. 3, 5, 8.
- 1312. Wallace, J. H., Rockwell Internal Letter to P. D. Rutherford, re: Radiological Safety report, T059 RPT Pit, July 29, 1993.
- 1313. Wallace, J. H., Rockwell Internal Letter to Radiation and Nuclear Safety Group, re: Radiological Safety Incident Report, T059 Pipe Chase Room, August 12, 1988.
- 1314. Wallace, J. H., Rockwell Internal Letter to Radiation and Nuclear Safety Group, re: Radiological Safety Incident Report, T059, August 19, 1988.
- 1315. Wallace, J. H., Rockwell International Internal Letter, re: Radiological Safety Report, T064 South Vault, 6/8/92, June 17, 1992.
- 1316. Wallace, J., Radiation Survey Report, T-665, Rockwell International, November 2, 1995, HDMSe00378816.
- 1317. Wallace, J., Rockwell Internal Letter to Radiation and Nuclear Safety Energy Systems Group, re: Radiological Safety Incident Report, T059 Vacuum Equipment, May 8, 1990
- 1318. Wallace, J., Semi-Annual Leak Text, T-621, Rockwell International, April 10, 1992.
- 1319. Wallace, J.H., Radiological Safety Report A0215, August 12, 1991.
- 1320. Wallace, J.H., Radiological Survey Results Release to Unrestricted Use, Building 010 at SSFL, N704TI990041, Rockwell International, Atomics International Division, August 28, 1978, p. 3.
- 1321. Wallace, J.H., Rockwell International Document No. N0010SP000002, Radiation Safety Plan for the Radioactive Materials Disposal Facility (RMDF), March 1991, pgs. 25, 33.
- 1322. Wallace, J.H., Rockwell International Internal Letter Re: Radiological Safety Incident Report A0106, August 4, 1982.
- 1323. Warren, J.W., A0430, Radiological Safety Incident Report, Bldg 005 Low Bay, August 15, 1960.
- 1324. Warren, J.W., A0473, Building 4005 North High Bay, July 1, 1960.
- 1325. Warren, J.W., Internal Letter Re: Radiological Safety Incident Report, A0425, April 22, 1960.
- 1326. Warren, J.W., Internal Letter Re: Radiological Safety Incident Report A0479, May 19, 1960.
- 1327. Warren, J.W., Internal Letter Re: Radiological Safety Incident Report, Building 049 Pad-SS, April 27, 1960.
- 1328. Weiner, L.A. and Barisas, S., Status Report of the DOE Activities at the Santa Susana Field Laboratories Site Environmental Survey, U.S. Department of Energy, June 30, 1988, p. 10.
- 1329. Wesley, David, DHS/RHB, Untitled Letter Re: Release of Building 363, July 9, 1998.
- 1330. Wieseneck, H.C., ETEC Monthly Progress Report-April 1987, May 20, 1987.
- 1331. Wieseneck, H.C., ETEC Monthly Progress Report-January 1987, February 20, 1987.
- 1332. Wildanger, A.W., Incident Report Re: Radiation Measurement Facility, A0367, July 9, 1965.
- 1333. Williams, R.O., Rockwell International Letter Re: Environmental Assessments, January 31, 1984.

- 1334. Wilmes, R.F., Atomics International Internal Letter Re: Weekly Progress Report for Industrial Hygiene and Safety Unit, Santa Susana, Period Ended 1-16-65, January 19, 1965.
- 1335. Wilson R.F., Atomics International Letter Re: Building 024 FS-3 Vault and Transfer Cell Contamination Levels, July 14, 1966.
- 1336. Wondolleck, John, Area IV Santa Susana Field Laboratory, Environmental Impact Statement, Draft Gap Analysis Report, CDM, June 1, 2008, Appendix A, p. 13.
- 1337. Wong, Gerald, DHS Letter regarding Release of Building T029, T028, and OCY, January 2, 1996.
- 1338. Wong, Gerald, DHS/RHB, Letter, "Boeing's Request for Concurrence in Release for Use Without Radiological Restriction, Rocketdyne Santa Susana Field Laboratory Building T023," February 19, 1998.
- 1339. Wong, Gerald, DHS/RHB, Untitled letter, January 15, 1999.
- 1340. Wong, Gerard, DHS Radiologic Health Branch Letter Re: Boeing's Request for Concurrence in Release for Use Without Radiological Restriction, Rocketdyne Santa Susana Field Laboratory, Building T023, February 19, 1998.
- 1341. Wong, Gerard, DHS/RHB Letter Re: ETEC's Radiological Survey Report of Buildings T373 and T375, May 9, 1995.
- 1342. Wong, Gerard, Letter Re: Release of Building 4373 and 4375, May 9, 1995.
- 1343. Wynveen, R. A., Smith, W. H., Sholeen, C. M., Justus, A. L., and Flynn, K. F., Interim Radiological Survey Report for Building 003, Santa Susana Field Laboratory, Rockwell International, Argonne National Laboratory Report, May 1983, pp. 1-6.
- 1344. Wynveen, R. A., Smith, W. H., Sholeen, C. M., Justus, A. L., and Flynn, K. F., Post Remedial Action Survey Report for Building 003, Santa Susana Field Laboratories, Rockwell International, Ventura County, California, Argonne National Laboratory Report, DOE/EV-0005/44, ANL-OHS/HP-83-109, October 1983, pp. 1-6.
- 1345. Wynveen, R.A. et al., Interim Post Remedial Action Survey Report for Systems for Nuclear Auxiliary Power-8 (SNAP-8) Experimental Reactor Facility (Building 010), Santa Susana Field Laboratory, Rockwell International, Canoga Park, California, Argonne National Laboratory, May 1983, p.1.
- 1346. Yarrow, A. R., Atomics International Internal Letter, re: Radiological Safety Incident Report, Bldg. 143 (High Bay), 11/4/61, November 7, 1961.
- 1347. Young, C. L., Atomics International Internal Letter, re: Incident Report, Building 163 (CERF), 9-15-64, September 17, 1964.
- 1348. Young, C. L., Atomics International Internal Letter, re: Potential Contamination of Personnel, February 19, 1959.
- 1349. Young, C. L., Atomics International Internal Letter, re: Radiological Safety Incident Report, Sodium Reactor Experiment, 11/21/59, December 7, 1959.
- 1350. Young, L.M., Atomics International Internal Correspondence, Re: Incident Report Building 022, May 13, 1965, May 18, 1965.
- 1351. Young, L.N., Atomics International Internal Correspondence, Re: Incident Report Building 21-Decontamination Room, June 6, 1964, June 17, 1964.
- 1352. Young, L.N., Atomics International Internal Correspondence, Re: Incident Report, Building 021, Decontamination Room, July 21, 1964, July 22, 1964.
- 1353. Young, L.N., Atomics International Internal Correspondence, Re: Incident Report, North Side Building 021, December 22, 1964, January 18, 1965.
- 1354. Young, L.N., Atomics International Internal Correspondence, Re: Incident Report RMDF Building 664, February 10, 1965, February 12, 1965.
- 1355. Young, L.N., Atomics International Internal Letter, Subject: Overexposure of April Film Badges at Building 622, April 19, 1965.
- 1356. Young, L.N., Internal Letter Re: Reclassification of Room 106, Building 363, August 10, 1965.
- 1357. Zenco Engineering, Inc., Letter Re: ETEC Demolition Package A, Building 4023, Not to Exceed Estimate for Asbestos Abatement, May 21, 1999.
- 1358. Zwetzig, G. B., Organic Moderated Reactor Critical Experiment Hazards Summary, Report No. NAA-SR-3220, December 15, 1958, p. 26.

1359. Zwetzig, G.B., Survey of Fission- and Corrosion-Product Activity in Sodium- or NaK-Cooled Reactors, AI-AEC-MEMO-12790, Atomics International, a Division of North American Rockwell Corporation, February 28, 1969, p. 10. This page intentionally left blank.