



U.S. Dept. of Energy  
(DOE)



Defense Threat  
Reduction Agency



Nevada Division of  
Environmental Protection  
(NDEP)

# Federal Facility Agreement and Consent Order (FFACO)



Revision No.: 0

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Appendix I	Description of Facilities
Appendix II	Corrective Action Sites/Units
Appendix III	Corrective Action Investigations/ Corrective Actions
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1 THE STATE OF NEVADA  
2 DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES,  
3 DIVISION OF ENVIRONMENTAL PROTECTION  
4

5 AND  
6

7 THE UNITED STATES DEPARTMENT OF ENERGY  
8

9 AND  
10

11 THE UNITED STATES DEPARTMENT OF DEFENSE  
12

13 IN THE MATTER OF:  
14

15 FEDERAL FACILITY AGREEMENT  
16

17 AND  
18

19 CONSENT ORDER  
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FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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1 **INTRODUCTION**

2  
3 This Federal Facility Agreement and Consent Order (Agreement) is  
4 made and entered into by and among the State of Nevada, acting by  
5 and through the Department of Conservation and Natural Resources,  
6 Division of Environmental Protection (NDEP), the United States  
7 Department of Energy (DOE), and the United States Department of  
8 Defense (DoD). The NDEP enters into this Agreement pursuant to its  
9 statutory authority to protect the public health and the  
10 environment.

11  
12 The facilities for which DOE has assumed responsibility and which  
13 are subject to this Agreement include the Nevada Test Site (NTS),  
14 parts of the Tonopah Test Range, parts of the Nellis Air Force  
15 Range, the Central Nevada Test Area, and the Project Shoal Area  
16 (hereinafter collectively referred to as the facilities). DoD's  
17 responsibilities are limited to those areas at the NTS where DoD  
18 has conducted activities. The legal description of each facility  
19 is provided in [Appendix I, Description of Facilities](#).

20  
21 The NTS as defined herein does not include those portions of Area  
22 25 (see [Appendix I, Description of Facilities](#), for area location)  
23 being used to conduct activities under the Nuclear Waste Policy  
24 Act. The parties agree to negotiate in good faith to address any  
25 needed environmental restoration for contamination that predates  
26 the enactment of the Nuclear Waste Policy Act within the areas  
27 excluded from the definition of the NTS as identified in Appendix  
28 I, Description of Facilities. This Agreement is not intended to  
29 impact or limit the ongoing site characterization of the Yucca  
30 Mountain site, which is proposed for spent nuclear fuel and high-  
31 level radioactive waste disposal. The parties agree that any  
32 activities undertaken by DOE or successor agencies to characterize  
33 Yucca Mountain, or to construct, operate, or close a spent nuclear  
34 fuel and high-level radioactive waste repository at Yucca Mountain  
35 are specifically excluded from this Agreement.

36  
37  
38 **PART I. PARTIES**

39  
40 I.1. The parties to this Agreement are persons as defined in  
41 [paragraph IV.34](#) and include the NDEP, DOE, and DoD. NDEP, DOE, and  
42 DoD are referred to collectively herein as the parties (parties) to  
43 this Agreement.

44  
45 I.2. DOE and DoD shall provide notice of this Agreement  
46 (including all appendices and any amendments) to every successor in  
47 interest and to any successor agency prior to any transfer of  
48 ownership or operation of the real property subject to this

1 Agreement. The provisions of this Agreement shall be binding on all  
2 successors in interest and on any successor agency.

3  
4 I.3. DOE and DoD shall be responsible for ensuring that their  
5 respective contractors conduct their activities in conformance with  
6 the requirements of this Agreement. Contractors of each party are  
7 not considered parties to this Agreement.

8  
9 I.3.a. DOE and DoD shall provide copies of this Agreement  
10 to all their respective prime contractors presently  
11 retained to perform work related to any part of this  
12 Agreement within thirty (30) calendar days of execution of  
13 this Agreement.

14  
15 I.3.b. DOE and DoD shall provide copies of this Agreement  
16 to all additional prime contractors retained to perform  
17 work related to any part of this Agreement within ten (10)  
18 calendar days following their retention.

19  
20 I.3.c. Copies of this Agreement shall be made available  
21 to all other contractors and subcontractors retained to  
22 perform work under this Agreement.

23  
24  
25 **PART II. STATEMENT OF PURPOSE**

26  
27 II.1. The purposes of this Agreement include, but are not  
28 limited to:

29  
30 II.1.a. Identifying sites of potential historic  
31 contamination and implementing proposed corrective actions  
32 based on public health and environmental considerations as  
33 follows to:

34  
35 II.1.a.i. Ensure that the impacts and potential  
36 impacts at the facilities, as defined in [paragraph](#)  
37 [IV.26](#), associated with the releases or threatened  
38 releases of hazardous substances, pollutants, solid  
39 wastes, and/or hazardous wastes into the environment  
40 and discharges and/or potential discharges of  
41 pollutants into the waters of the state are thoroughly  
42 investigated by DOE and/or DoD under the regulatory  
43 authority and oversight of NDEP.

44  
45 II.1.a.ii. Ensure that hazardous substances,  
46 pollutants, solid wastes, and/or hazardous wastes  
47 which have been, are, or may be discharged into waters  
48 of the state or released into the environment at, on,

1 or from the facilities are subject to corrective  
2 actions and closure requirements, under the oversight  
3 of NDEP.

4  
5 II.1.a.iii. Ensure that all elements of the  
6 investigations and corrective actions provided for in  
7 this Agreement consider public input.

8  
9 II.1.b. Establishing specific sampling and monitoring  
10 requirements, including drilling and subsurface sampling,  
11 designed to:

12  
13 II.1.b.i. Ensure the health and safety, at all  
14 times, of NDEP personnel, site workers at the  
15 facilities, and any members of the public present at  
16 the facilities, including during corrective action  
17 activities;

18  
19 II.1.b.ii. Determine whether releases of  
20 pollutants and/or hazardous wastes or potential  
21 releases of pollutants and/or hazardous wastes are  
22 migrating or potentially could migrate, and if so,  
23 identify the constituents, their concentration(s), and  
24 the nature and extent of that migration;

25  
26 II.1.b.iii. Facilitate the undertaking of  
27 appropriate corrective actions;

28  
29 II.1.b.iv. Demonstrate that corrective actions  
30 have achieved the degree of closure defined as  
31 acceptable in the approved corrective action plan.

32  
33 II.1.c. Providing all parties with sufficient information  
34 to enable adequate evaluation of appropriate remedies by  
35 specifying the radioactive and hazardous constituents for  
36 each corrective action unit.

37  
38 II.1.d. Ensuring that the parties work together in a  
39 cooperative manner which enables cost effective corrective  
40 action investigations and corrective actions and minimizes  
41 the likelihood of litigation among the parties.

42  
43 II.1.e. Substantially reducing the costs of cleanup  
44 activities at the facilities through coordinated project  
45 management, involvement of NDEP in DOE's and DoD's  
46 planning and budgeting processes as set forth in [Part XV,](#)  
47 [Obligations of DOE and DoD](#), NDEP's oversight of cleanup,  
48 efficient use of consultative approaches, and elimination

1 or streamlining of duplicative or unnecessary procedures.

2  
3 II.1.f. Satisfying the corrective action requirements of  
4 40 CFR 264.101 and Sections 3004(u) and 3004(v) of the  
5 Resource Conservation and Recovery Act (RCRA), 42 U.S.C.  
6 §6924 (u) and (v), and through incorporation by reference  
7 into DOE's RCRA permit number NEV HW009.

8  
9 II.2. This Agreement is not intended to fulfill the Federal  
10 Facility Compliance Act requirement for a compliance order  
11 addressing the Land Disposal Restriction prohibition for mixed  
12 wastes. Land disposal restricted mixed wastes generated as a  
13 result of actions taken under this Agreement will be managed in  
14 accordance with the Mutual Consent Agreement Between the State of  
15 Nevada and the Department of Energy for the Storage of Low-Level  
16 Land Disposal Restricted Mixed Waste signed on June 6, 1995, or  
17 subsequent permitted treatment, storage, or disposal unit  
18 operational requirements, including all applicable requirements of  
19 the RCRA, 42 U.S.C. §6901 et seq. The Mutual Consent Agreement  
20 covers storage of environmental restoration generated mixed waste,  
21 and schedules for treatment of environmental restoration-generated  
22 land disposal restricted mixed waste will be established and  
23 enforced in accordance with the Mutual Consent Agreement and not as  
24 part of this Agreement.

25  
26  
27 **PART III. LEGAL AUTHORITY**

28  
29 III.1. DOE enters into this Agreement pursuant to Section  
30 120(a)(4) of the Comprehensive Environmental Response, Compensation  
31 and Liability Act (CERCLA), 42 U.S.C. §9620(a)(4); Sections 6001  
32 and 3004(u) and 3004(v) of RCRA, 42 U.S.C. §6901 et seq.; the  
33 Atomic Energy Act, 42 U.S.C. §2011 et seq.; and Executive Order  
34 12580 "Superfund Implementation."

35  
36 III.2. DoD enters into this Agreement pursuant to Section 120 of  
37 CERCLA, 42 U.S.C. §9620; Sections 6001 and 3004(u) and 3004(v) of  
38 RCRA, 42 U.S.C. §6901 et seq.; Executive Order 12580, "Superfund  
39 Implementation"; the National Contingency Plan; Section 311 (c) of  
40 the Federal Water Pollution Control Act, 33 U.S.C. §1321; and the  
41 Defense Environmental Restoration Program, 10 U.S.C. §2701.

42  
43 III.3. The parties enter into this Agreement pursuant to their  
44 applicable authorities and responsibilities, including the Solid  
45 Waste Disposal Act, which includes both RCRA and the Hazardous and  
46 Solid Waste Act; Chapters 444, 445, and 459 of the Nevada Revised  
47 Statutes (NRS) including the Nevada Water Pollution Control Law,  
48 NRS 445A.300 et seq., the Nevada Hazardous Waste Law, NRS 459.400

1 et seq., Chapters 444, 445, and 459 of the Nevada Administrative  
2 Code (NAC), the Nevada Administrative Procedure Act, NRS Chapter  
3 233B, as these laws may be amended from time to time, and all other  
4 applicable provisions of state and federal law. NDEP specifically  
5 retains all of its hazardous waste and clean water authorities and  
6 legal rights, both substantive and procedural, both under the  
7 authorities delegated by the U.S. Environmental Protection Agency,  
8 and under its own laws and regulations as well. DOE does not waive  
9 any claim of jurisdiction over matters which may be reserved to DOE  
10 by law, including the Atomic Energy Act, 42 U.S.C. §2011 et seq.  
11

12 III.4. To the extent not inconsistent with federal law, the laws  
13 of the state of Nevada shall be applied when interpreting and  
14 construing this Agreement. Compliance with the terms and  
15 conditions of this Agreement does not relieve DOE or DoD of any  
16 responsibility for complying with all applicable federal and state  
17 laws and regulations.  
18  
19

20 **PART IV.            DEFINITIONS**  
21

22 IV.1. Except as noted in Part IV of this Agreement, the  
23 definitions provided in RCRA, the Nevada Water Pollution Control  
24 Law, NRS 445.131 et seq., the Nevada Hazardous Waste Law, NRS  
25 459.400 et seq., and their implementing regulations, as  
26 appropriate, shall control the meanings of the terms contained in  
27 this Agreement.  
28

29 IV.2. "Administrator" shall have the meaning given in NRS  
30 445.134.  
31

32 IV.3. "Agreement" shall refer to this Federal Facility Agreement  
33 and Consent Order (FFACO) and includes all attachments, addenda,  
34 appendices, amendments, and modifications.  
35

36 IV.4. "Agreement coordinator" shall refer to the individual  
37 designated by each party to this Agreement responsible for the  
38 overall implementation of the Agreement.  
39

40 IV.5. "Authorized representative(s)" shall include a party's  
41 contractor(s) or agent(s) acting in specifically designated or  
42 defined capacities.  
43

44 IV.6. "Central Nevada Test Area" shall mean the property so  
45 described in Appendix I, Description of Facilities.  
46

47 IV.7. "Clean closure" shall mean the removal of pollutants,  
48 hazardous wastes, and solid wastes released into the environment or

1 discharged and/or having the potential of being discharged into  
2 waters of the state in accordance with corrective action plans.

3  
4 IV.8. "Closure in place" shall mean the stabilization or  
5 isolation of pollutants, hazardous wastes, and solid wastes, with  
6 or without partial treatment, removal activities, and/or post-  
7 closure monitoring, in accordance with corrective action plans.

8  
9 IV.9. "Community Advisory Board" shall mean that formally  
10 constituted and chartered board created under the Federal Advisory  
11 Committee Act established to provide site-specific recommendations  
12 for environmental restoration and waste management activities on  
13 the facilities.

14  
15 IV.10. "Contaminant" shall have the meaning given in NRS  
16 445A.325. DOE asserts that this definition is subject to [Part III,](#)  
17 [Legal Authority.](#)

18  
19 IV.11. "Corrective action" shall mean an action or series of  
20 actions taken to correct deficiencies in the disposal or  
21 containment of pollutants, hazardous wastes, and solid wastes to  
22 prevent releases and/or potential releases into the environment or  
23 discharges and/or potential discharges of such materials into  
24 waters of the state in accordance with the approved corrective  
25 action plan. A corrective action may range from no action to clean  
26 closure.

27  
28 IV.12. "Corrective action coordinator(s)" shall mean the  
29 individual(s) responsible for overseeing daily activities required  
30 by this Agreement.

31  
32 IV.13. "Corrective action decision document" (CADD) shall mean a  
33 document that describes the corrective action that is selected as  
34 the result of investigation activities and the rationale for its  
35 selection. The rationale consists of an analysis of the possible  
36 alternatives and may reflect a decision ranging from no action to  
37 clean closure.

38  
39 IV.14. "Corrective action investigation" (CAI) shall mean an  
40 investigation conducted by DOE and/or DoD to gather data sufficient  
41 to characterize the nature, extent, and rate of migration or  
42 potential rate of migration from releases or discharges of  
43 pollutants or contaminants and/or potential releases or discharges  
44 from corrective action units identified at the facilities.

45  
46 IV.15. "Corrective action investigation plan" (CAIP) shall mean  
47 a document that provides or references all of the specific  
48

1 information for planning investigation activities associated with  
2 corrective action units or corrective action sites. A CAIP may  
3 reference information in the optional CAU work plan or other  
4 applicable documents. If a CAU work plan is not developed, then  
5 the CAIP must include or reference all of the management,  
6 technical, quality assurance, health and safety, public  
7 involvement, field sampling, and waste management information  
8 needed to conduct the investigations in compliance with established  
9 procedures and protocols.

10  
11 IV.16. "Corrective action plan" (CAP) shall mean a plan which is  
12 prepared when the corrective action decision document requires a  
13 corrective action.

14  
15 IV.17. "Corrective action sites" (CASs) shall refer to the sites  
16 potentially requiring corrective action(s) and may include solid  
17 waste management units, or individual disposal or release sites.

18  
19 IV.18. "Corrective action unit" (CAU) shall mean one or more  
20 corrective action sites grouped geographically, by technical  
21 similarity, agency responsibility, or for other appropriate  
22 reasons, for purposes of determining corrective actions.

23  
24 IV.19. "Corrective action unit work plan" (CAU work plan) shall  
25 mean an optional planning document that provides information for a  
26 CAU or a collection of CAUs where significant commonality exists.  
27 This plan may be developed to eliminate redundant CAU documentation  
28 and may contain management, technical, quality assurance, health  
29 and safety, public involvement, field sampling, and waste  
30 management information. This common information will be referenced  
31 in the appropriate CAIPs.

32  
33 IV.20. "Days" shall mean calendar days unless business days are  
34 specified. Any submittal that, under the terms of this Agreement,  
35 would be due on a Saturday, Sunday, or state of Nevada or federal  
36 holiday shall be due on the following business day.

37  
38 IV.21. "Deadline" shall mean the date by which an enforceable  
39 milestone established by this Agreement or other actions or  
40 activities specifically identified in this Agreement shall be met.  
41 Stipulated penalties may be assessed for failure to meet an  
42 established deadline.

43  
44 IV.22. "Department of Defense" (DoD) shall mean the Office of the  
45 Secretary of Defense, Defense Nuclear Agency and/or any predecessor  
46 or successor agency(ies) and/or their authorized representatives so  
47 designated in writing.

1 IV.23. "Department of Energy" (DOE) shall mean the U.S.  
2 Department of Energy and/or any predecessor or successor  
3 agency(ies) and/or their authorized representatives.  
4

5 IV.24. "Due date" shall mean the date by which a nonenforceable  
6 milestone is due.  
7

8 IV.25. "Enforceable milestone" shall mean a milestone which is  
9 enforceable and for which a deadline has been assigned.  
10

11 IV.26. "Facilities" shall include the Nevada Test Site (NTS),  
12 parts of the Tonopah Test Range, parts of the Nellis Air Force  
13 Range, the Central Nevada Test Area, and the Project Shoal Area.  
14 The NTS as defined herein does not include those areas being used  
15 to conduct activities under the Nuclear Waste Policy Act.  
16

17 IV.27. "Fiscal year" (FY) shall mean the federal fiscal year  
18 unless otherwise specified.  
19

20 IV.28. "Hazardous substance" shall have the meaning given in  
21 CERCLA §101, 42 U.S.C. §9601(14), and NRS 459.429. DOE asserts  
22 that this definition is subject to [Part III, Legal Authority](#).  
23

24 IV.29. "Hazardous waste" shall have the meaning given in  
25 42 U.S.C. §6903(5) and NRS 459.430.  
26

27 IV.30. "Milestone" shall mean an important or critical event,  
28 goal, task, and/or activity that must occur in order to achieve the  
29 objective(s) for that corrective action unit.  
30

31 IV.31. "Mixed waste" shall have the meaning given in 42 U.S.C.  
32 §6903 (41).  
33

34 IV.32. "Nellis Air Force Range" shall mean the property so  
35 described in [Appendix I, Description of Facilities](#).  
36

37 IV.33. "Nevada Test Site" (NTS) shall mean the property so  
38 described in [Appendix I, Description of Facilities](#).  
39

40 IV.34. "Parties" shall mean the parties named in [Part I, Parties](#),  
41 to this Agreement.  
42

43 IV.35. "Person" for the purposes of this Agreement shall include  
44 DOE, DoD, and NDEP within the definitions of "person" contained in  
45 the Nevada Water Pollution Control Law, NRS 445A.300 et seq., and  
46 the Nevada Hazardous Waste Law, NRS 459.400 et seq.  
47

48 IV.36. "Pollutant" shall have the meaning given in NRS 445A.400.

1 DOE asserts that this definition is subject to [Part III, Legal](#)  
2 [Authority](#).

3  
4 IV.37. "Project Shoal Area" shall refer to the locality so  
5 described in [Appendix I, Description of Facilities](#).

6  
7 IV.38. "RCRA" shall mean the Resource Conservation and Recovery  
8 Act of 1976, Public Law 94-580, 42 U.S.C. Section 6901 et seq., as  
9 amended by the Hazardous and Solid Waste Amendments of 1984,  
10 P.L. 98-616, as amended by the Federal Facility Compliance Act of  
11 1992, P.L. 102-386, and any other amendments thereto.

12  
13 IV.39. "RCRA Permit" shall mean a permit issued by NDEP for  
14 hazardous waste treatment, storage, and/or disposal units  
15 including, as required, post-closure monitoring of such units.

16  
17 IV.40. "Release" (including past releases) shall have the meaning  
18 given in NAC 459.9526 and NAC 445A.345.2 as related to constituents  
19 identified in NAC 445A.347.2.

20  
21 IV.41. "Solid waste" shall have the meaning given in 42 U.S.C.  
22 §6903 (27) and NRS 444.490.

23  
24 IV.42. "State of Nevada Department of Conservation and Natural  
25 Resources, Division of Environmental Protection" (NDEP) shall have  
26 the meaning given in NRS 445A.350 and NAC 444.576.

27  
28 IV.43. "Submittal" shall mean every document, report, schedule  
29 deliverable, work plan, or other written item to be provided to  
30 NDEP pursuant to this Agreement.

31  
32 IV.44. "Timeframe" shall mean an interval of time over which some  
33 action is planned to occur, with or without reference to a  
34 beginning or ending date.

35  
36 IV.45. "Tonopah Test Range" shall mean the property so described  
37 in [Appendix I, Description of Facilities](#).

38  
39 IV.46. "Waters of the state" shall have the meaning given in  
40 NRS 445A.415.

41  
42  
43 **PART V. DESCRIPTION OF APPENDICES**

44  
45 V.1. Appendices I-VI are incorporated by reference into this  
46 Agreement. Any ambiguity resulting from different language used in  
47 an appendix versus the body of this Agreement shall be resolved in  
48 favor of terms and conditions found in the body of this Agreement.

1 V.2. [Appendix I, "Description of Facilities,"](#) contains the  
2 descriptions of each of the facilities covered by this Agreement.  
3

4 V.3. [Appendix II, "Corrective Action Sites/Units,"](#) contains a  
5 list of all CAUs which have been identified to date and which have  
6 not yet been transferred to subsequent appendices or CASSs which  
7 have not yet been grouped into CAUs. A CAU shall consist of one or  
8 more CASSs, and each CAS in each CAU will be identified. New  
9 CASSs/CAUs identified by any of the parties shall be added to  
10 Appendix II on a quarterly basis. CAUs shall be grouped in  
11 categories and subcategories in accordance with [Appendix VI,](#)  
12 [Corrective Action Strategy.](#) The CAU categories may include:  
13

14 V.3.a. Industrial sites;

15 V.3.b. Underground test areas;

16 V.3.c. Contaminated soil sites; and

17 V.3.d. Offsites.  
18  
19  
20  
21

22 V.4. [Appendix III, "Corrective Action Investigations/Corrective](#)  
23 [Actions,"](#) shall list those CAUs that have been identified and  
24 prioritized for CAIs and/or for corrective actions as described in  
25 Part XII, [Corrective Action Investigations/Corrective Actions.](#)  
26 This appendix shall also contain CAU milestones with associated due  
27 dates and deadlines.  
28

29 V.5. [Appendix IV, "Closed Corrective Action Units,"](#) shall list  
30 those CAUs for which all corrective actions have been completed and  
31 approved by NDEP in accordance with Part XII, [Corrective Action](#)  
32 [Investigations/Corrective Actions.](#)  
33

34 V.6. [Appendix V, "Public Involvement Plan,"](#) is described in  
35 [Part XVII, Public Involvement.](#) A draft of this appendix shall be  
36 submitted within 60 days of the effective date of the Agreement.  
37

38 V.7. [Appendix VI, "Corrective Action Strategy,"](#) contains the  
39 process for implementing corrective actions pursuant to this  
40 Agreement. Processes described in greater detail in Appendix VI,  
41 [Corrective Action Strategy,](#) than in the body of this Agreement may  
42 be in addition to those described herein but shall not be in  
43 conflict with the provisions contained in the body of this  
44 Agreement.  
45  
46  
47  
48

1 **PART VI. ENFORCEABILITY/RESERVATION OF RIGHTS**

2  
3 VI.1. Except as described in paragraph VI.2 and [paragraph](#)  
4 [VIII.6](#), compliance with the terms and conditions of this Agreement  
5 shall stand in lieu of any administrative or judicial remedies that  
6 may be taken for matters covered by this Agreement.

7  
8 VI.2. NDEP reserves the right to bring any enforcement action  
9 against DOE and/or DoD for noncompliance with the terms and  
10 conditions of this Agreement, including actions for the sole  
11 purpose of compelling completion of a deficient activity whether or  
12 not stipulated penalties are sought.

13  
14 VI.3. For all matters outside the scope of this Agreement, NDEP,  
15 within the scope of its authority, reserves the right to bring  
16 enforcement actions against any person.

17  
18 VI.4. DOE and DoD intend to be legally bound by this Agreement  
19 and agree that the terms and conditions of this Agreement are  
20 enforceable as provided herein. DOE and DoD consent to NDEP's  
21 jurisdiction for the purpose of executing and enforcing the terms  
22 and conditions of this Agreement.

23  
24 VI.5. Nothing in this Agreement shall be construed to affect any  
25 criminal investigations or criminal liability of any person(s) for  
26 activities at any of the facilities described in [Appendix I,](#)  
27 [Description of Facilities](#).

28  
29 VI.6. Nothing in this Agreement shall constitute, or be  
30 construed as a release from any claim, cause of action, or demand  
31 in law or equity against any individual, firm, partnership, or  
32 corporation not directly identified in this Agreement for any  
33 liability it may have arising out of, or relating in any way, to  
34 the generation, storage, treatment, handling, transportation,  
35 release, or disposal of any hazardous substances, hazardous wastes,  
36 solid waste or pollutants, found at, taken to, or taken from, any  
37 of the facilities that are the subject of this Agreement.

38  
39 VI.7. The parties reserve their appeal rights as set forth in  
40 [Part IX, Informal Dispute Resolution and Appeal Procedure](#).

41  
42 VI.8. In the event of administrative or judicial action, all  
43 parties reserve all rights, claims, and defenses available under  
44 law.

45  
46  
47  
48

1 **PART VII.           PROGRESS REPORTS**

2  
3 VII.1. Following the effective date of this Agreement, DOE and  
4 DoD shall, on or before the 30th calendar day following the end of  
5 each calendar quarter, submit a written or electronic progress  
6 report to NDEP that describes the actions taken during the calendar  
7 quarter just ended. This information will serve as a partial basis  
8 for the discussions at the quarterly meetings discussed in  
9 [paragraph XII.4.](#)

10  
11 VII.2. Each progress report shall include:

12  
13 VII.2.a. Sufficient detail to clearly and accurately  
14 convey to NDEP the manner and extent to which the  
15 requirements and schedules set forth in the work plans and  
16 other terms and conditions of this Agreement are being  
17 met;

18  
19 VII.2.b. Any known cost and schedule variances exceeding  
20 the established thresholds will be reported along with the  
21 cause of the variances and any actions which may be  
22 implemented to correct the variances;

23  
24 VII.2.c. Actions and issues of concern, where additional  
25 communication is necessary.

26  
27 VII.3. DOE and/or DoD shall, within sixty (60) calendar days of  
28 NDEP's request, which is hereby established as the deadline for  
29 this activity, provide NDEP with budgets and costs for activities  
30 covered by this Agreement.

31  
32 VII.4. DOE and DoD shall include in their quarterly reports a  
33 three-month advance schedule outlining field activities (including  
34 the field activities of their respective contractors,  
35 subcontractors, operators, and agents), proposed to be implemented  
36 under this Agreement. A more detailed schedule shall be provided  
37 to NDEP on a bi-weekly basis, and shall provide the specific dates  
38 for conducting these activities for the subsequent two-week period,  
39 thereby enabling NDEP to select those activities it deems  
40 appropriate to observe.

41  
42 VII.5. The National Defense Authorization Act for 1994, 42 U.S.C.  
43 §7274k, (P.L. 103-160, Section 3153) requires DOE to prepare and  
44 submit an annual environmental restoration report. DOE shall  
45 submit to NDEP a copy of the portions of that report that define  
46 the conditions or otherwise relate to the activities being  
47 undertaken by the DOE Nevada Operations Office within thirty (30)  
48 calendar days of the report's submittal to Congress.

1 VII.6. Quarterly meetings will be held in part to discuss any  
2 issues raised in or by the quarterly progress reports. These  
3 meetings will also serve to initiate the prioritization discussions  
4 identified in [Part XII, Corrective Action Investigations/Corrective](#)  
5 [Actions](#). Parties will attempt to resolve issues during the  
6 quarterly meetings. Resolution of issues will be documented, and  
7 unresolved issues will be discussed at or before the next quarterly  
8 meeting.

9  
10 VII.7. Parties may meet at times other than the quarterly  
11 meetings as required, for example if there are events, such as  
12 changes in available funding, that might affect milestones,  
13 especially if those milestones are in the current fiscal year.

14  
15  
16 **PART VIII. STIPULATED PENALTIES**

17  
18 VIII.1. Stipulated penalties shall be incurred by DOE and/or DoD  
19 in the event that DOE and/or DoD fails to meet an established  
20 deadline.

21  
22 VIII.2. In the event DOE or DoD fails to meet an established  
23 deadline contained herein, NDEP may assess a stipulated penalty in  
24 the amount of \$5,000.00 per week for the first week or part thereof  
25 of such failure, \$10,000.00 per week for the following week or part  
26 thereof of such failure, and \$15,000.00 per week for the third and  
27 each succeeding week for which the failure to meet an established  
28 deadline occurs.

29  
30 VIII.3 NDEP shall notify DOE and/or DoD in writing of any alleged  
31 failure to meet an established deadline.

32  
33 VIII.3.a. If NDEP's written notice of a missed deadline  
34 cites that the specified deadline was not met, evidence  
35 supporting any alleged defense must be submitted to NDEP  
36 within thirty (30) calendar days from the date of receipt  
37 of NDEP's written notice unless otherwise agreed. No  
38 penalty shall be assessed if NDEP accepts the DOE's and/or  
39 DoD's defense. If NDEP rejects the defense, DOE and/or  
40 DoD shall be assessed the stipulated penalty from the date  
41 of the missed deadline, and DOE and/or DoD may initiate  
42 the appeal procedure in accordance with [paragraph IX.2](#) of  
43 this Agreement.

44  
45 VIII.3.b. If a milestone for which a deadline has been  
46 established is construed by NDEP to be substantially  
47 deficient, and therefore not complete, NDEP shall issue a  
48 written Notice of Deficiency to DOE and/or DoD that cites

etter

1 the alleged deficiencies. If DOE and/or DoD accept(s)  
2 NDEP's position, DOE and/or DoD shall, within twenty-one  
3 (21) calendar days of receipt of the Notice of Deficiency  
4 or such longer time period as specified by NDEP, correct  
5 the deficiencies and resubmit or otherwise complete the  
6 milestone for which the deadline was established. Any  
7 stipulated penalty(ies) connected to failure to meet the  
8 established deadline shall begin upon DOE's and/or DoD's  
9 receipt of the Notice of Deficiency. The penalty(ies)  
10 shall accrue during such twenty-one (21) calendar days, or  
11 otherwise specified period, and may, at NDEP's discretion,  
12 be waived unless the resubmitted deliverable or completed  
13 milestone is determined by NDEP to remain substantially  
14 deficient. If DOE and/or DoD is aggrieved by either  
15 NDEP's original or subsequent determination of substantial  
16 deficiency, DOE and/or DoD may initiate the appeal  
17 procedure in accordance with [paragraph IX.2](#).

18  
19 VIII.4. Stipulated penalties will continue to accrue and may be  
20 assessed at NDEP's discretion during pursuit of remedies contained  
21 in [Part IX, Informal Dispute Resolution and Appeal Procedure](#),  
22 except accrual of such penalties shall be suspended during any  
23 period of time in excess of fourteen (14) calendar days required by  
24 NDEP to render its decision under [paragraph VIII.3](#). DOE and/or DoD  
25 are responsible for stipulated penalties only for the time  
26 ultimately determined to be deficient, and stipulated penalties are  
27 to be paid within thirty (30) days of a final determination of  
28 deficiency unless the parties agree to a different schedule.

29  
30 VIII.5. The provisions of this Part shall not affect DOE's and/or  
31 DoD's ability to petition NDEP for an extension of a deadline as  
32 appropriate as set forth in [Part X, Extensions](#).

33  
34 VIII.6. Stipulated penalties for failure to meet established  
35 deadlines contained herein are in lieu of statutory penalties  
36 otherwise available under the law. For statutory or regulatory  
37 violations for actions for which deadlines are not established or  
38 outside the scope of this Agreement, all remedies available to NDEP  
39 may be invoked while DOE and DoD reserve their authority to use all  
40 available defenses.

41  
42 VIII.7. Payment of any stipulated penalty does not relieve DOE  
43 and/or DoD of any other requirements imposed by this Agreement.

44  
45 VIII.8. Any failure of DOE to remit a stipulated penalty within  
46 thirty (30) calendar days after the stipulated penalty is due and  
47 payable, unless the affected parties agree to a different payment  
48 schedule, shall, to the extent allowed by law, cause the addition

1 of interest on the unpaid balance compounded daily at a rate equal  
2 to the rate of interest fixed for 1-year United States treasury  
3 bills on the date of the commencement of the action, as reported in  
4 the "Federal Reserve Bulletin" published by the Board of Governors  
5 of the Federal Reserve System or other commonly used business or  
6 financial publication. In the event payment of interest is not  
7 allowed by law, DOE shall, to the satisfaction of NDEP, establish  
8 the basis of this position.

9  
10 VIII.9. NDEP's position is that the DoD is required to pay  
11 interest in accordance with [paragraph VIII.8](#). DoD's position is  
12 that absent express Congressional authorization the United States  
13 is immune from paying interest. If, however, a court of proper  
14 jurisdiction holds that the DoD is required to pay interest,  
15 interest shall be paid in accordance with [paragraph VIII.8](#).

16  
17 VIII.10. Stipulated penalties that are due and payable shall be  
18 paid to the state of Nevada, Division of Environmental Protection.

19  
20  
21 **PART IX. INFORMAL DISPUTE RESOLUTION AND APPEAL PROCEDURE**

22  
23 IX.1. All parties to this Agreement shall make reasonable  
24 efforts to informally resolve outstanding issues and/or disputes.  
25 During the informal dispute resolution process, the parties shall  
26 meet as many times as necessary to discuss and attempt resolution  
27 of the dispute. If resolution at the agreement coordinator level  
28 cannot be reached, efforts may be elevated to immediate supervisors  
29 of the agreement coordinators or, if necessary, to the agency  
30 executive level. If resolution cannot be achieved informally, the  
31 appeal procedures of this Part may be implemented.

32  
33 IX.2. In the event DOE and/or DoD are aggrieved by a written  
34 determination by the NDEP agreement coordinator or his designee,  
35 DOE and/or DoD may appeal the matter as follows:

36  
37 IX.2.a. Within fifteen (15) calendar days following DOE  
38 and/or DoD receipt of the NDEP determination being  
39 appealed, DOE and/or DoD shall request an informal  
40 administrative hearing. Seven calendar days prior to the  
41 informal administrative hearing, DOE and/or DoD shall  
42 provide NDEP with a witness list, list of exhibits, and  
43 summary of evidence intended to be presented. The informal  
44 administrative hearing shall be held in the NDEP offices  
45 within thirty (30) calendar days of the request, unless  
46 otherwise agreed. Following the informal administrative  
47 hearing, the NDEP administrator shall issue the final  
48 decision.

1 IX.2.b. If the informal administrative hearing fails to  
2 resolve the issue, DOE and/or DoD may, within twenty (20)  
3 calendar days following receipt of the NDEP  
4 administrator's final decision, appeal the administrator's  
5 decision to the Nevada State Environmental Commission  
6 (SEC). An appeal is made by filing SEC Form #3 with the  
7 Secretary of the SEC. SEC Form #3 will be enclosed with  
8 the decision document referenced in [paragraph IX.2.a.](#)  
9

10 IX.2.c. A hearing before the SEC shall be conducted within  
11 twenty (20) calendar days pursuant to the Nevada  
12 Administrative Procedure Act, NRS 233B.010 et seq. and the  
13 Rules of Practice and Procedure of the SEC, NAC 445B.875  
14 through 445B.897.  
15

16 IX.3. Any of the parties may appeal the final decision of the  
17 SEC as provided for in paragraph IX.2.c by filing a petition for  
18 judicial review pursuant to NRS 233B.010 et seq.  
19  
20

21 **PART X. EXTENSIONS**  
22

23 X.1. NDEP shall grant a reasonable extension of a deadline upon  
24 receipt of a timely written request from DOE and/or DoD and when  
25 NDEP determines that good cause exists for the requested extension.  
26 Any request for extension shall specify:  
27

28 X.1.a. The deadline that is sought to be extended;  
29

30 X.1.b. The length of the extension sought;  
31

32 X.1.c. The good cause(s) for the extension; and  
33

34 X.1.d. Any and all related schedule(s) or deadline(s)  
35 that would be affected if the extension were granted.  
36

37 X.2. Good cause may exist for an extension for:  
38

39 X.2.a. An event included in [Part XXII, Force Majeure](#);  
40

41 X.2.b. A delay caused by, or likely to be caused by, the  
42 granting of an extension in regard to another deadline or  
43 milestone;  
44

45 X.2.c. Any event or series of events mutually agreed to  
46 by DOE and/or DoD and NDEP as constituting good cause.  
47

48 X.3. NDEP, in writing, shall grant or deny a written request

1 for an extension within thirty (30) calendar days from the date of  
2 receipt of the written request.

3  
4 X.4. NDEP may grant the extension for less time than originally  
5 requested if it determines that the shorter extension is reasonable  
6 in light of the good cause.

7  
8 X.5. If NDEP denies the requested extension, or approves an  
9 extension but modifies the length of time requested for the  
10 extension, it will include in its written statement of denial or  
11 modification an explanation of the basis for its decision.

12  
13  
14 **PART XI. AMENDMENTS AND MODIFICATIONS**

15  
16 XI.1. Amendments to this Agreement may be proposed by any of the  
17 parties.

18  
19 XI.2. Amendments may be proposed for the following reasons,  
20 among others:

21  
22 XI.2.a. To assure that this Agreement remains consistent  
23 with applicable laws and regulations;

24  
25 XI.2.b. To assure that this Agreement is consistent with  
26 changed circumstances.

27  
28 XI.3. This Agreement shall not be modified unless such  
29 modification is in writing and signed by all affected parties.  
30 Changes to [Appendix V, Public Involvement Plan](#), and the movement of  
31 CAUs between appendices as specified in [Part V, Description of](#)  
32 [Appendices](#), and as specified in Part XII, [Corrective Action](#)  
33 [Investigations/ Corrective Actions](#), shall not be considered  
34 modifications of this Agreement.

35  
36  
37 **PART XII. CORRECTIVE ACTION INVESTIGATIONS/CORRECTIVE ACTIONS**

38  
39 XII.1. Within sixty (60) calendar days following the signing of  
40 this Agreement by the last party to do so, the parties shall meet  
41 to review Appendices II-IV and concur on the classification of all  
42 presently identified CAUs to insure all known CAUs are placed in  
43 the appropriate appendix, and where appropriate, due dates and  
44 deadlines established for existing and proposed activities.  
45 Following this initial meeting, the quarterly meeting process  
46 outlined in [paragraphs XII.3 and XII.4](#) will begin.

47  
48 XII.2. [Appendix III, Corrective Action Investigations/Corrective](#)

1 Actions, will initially reflect current prioritization of CAUS  
2 based on previous discussions with NDEP and/or the Community  
3 Advisory Board in developing the budgets and priorities for FY 96  
4 and FY 97. Following the initial prioritization, new CAUS will be  
5 prioritized based on assessment of risk, as well as agency,  
6 regulator, and stakeholder input (including the Community Advisory  
7 Board), according to the process described in [Appendix VI,](#)  
8 [Corrective Action Strategy.](#)

9  
10 XII.3. The parties shall review and update Appendices II through  
11 IV as required at quarterly meetings. The appendices shall be  
12 updated at each meeting to:

13  
14 XII.3.a. Add newly identified sites to [Appendix II,](#)  
15 [Corrective Action Sites/Units;](#)

16  
17 XII.3.b. Incorporate any approved schedule changes to the  
18 milestones in [Appendix III, Corrective Action](#)  
19 [Investigations/Corrective Actions.](#) Move CAUS from  
20 Appendix III, Corrective Action Investigations/Corrective  
21 Actions, to [Appendix IV, Closed Corrective Action Units,](#)  
22 after NDEP has issued a notice or notices of completion.  
23

24 XII.4. Following the transfer of a CAU from [Appendix II,](#)  
25 [Corrective Action Sites/Units,](#) to [Appendix III, Corrective Action](#)  
26 [Investigations/Corrective Actions](#) milestones, associated due dates  
27 and deadlines may be proposed by DOE and/or DoD but shall be  
28 established by NDEP according to the following quarterly meeting  
29 schedule listed in paragraphs XII.4.a through [XII.4.c.](#) Except as  
30 noted in [paragraph XII.5,](#) deadlines may be established for the  
31 submittal of work plans, CADDs, CAPs, and completion of corrective  
32 actions within the FY+2 planning window. For those work plans,  
33 CADDs, CAPs, and corrective actions for which completion may fall  
34 outside the planning window (FY+2), interim deadlines may be  
35 established within the FY+2 planning window. All deadlines other  
36 than those set forth explicitly in this Agreement shall be  
37 established pursuant to paragraphs XII.4 and XII.5.

38  
39 XII.4.a. During the quarterly meeting held during the  
40 fiscal year first quarter, the parties shall review and  
41 reconsider established priorities, milestones, and  
42 associated due dates and deadlines for the current fiscal  
43 year, taking into consideration the Approved Funding  
44 Program and the factors listed in section 1.3 of [Appendix](#)  
45 [VI, Corrective Action Strategy.](#) If the parties cannot  
46 agree on deadlines, then [Part IX, Informal Dispute](#)  
47 [Resolution and Appeal Procedure,](#) may be invoked.  
48

1 XII.4.b. During the quarterly meeting held during the  
2 fiscal year second quarter, the parties shall initiate the  
3 process to establish priorities, milestones, and  
4 associated due dates for CAUs for FY+2. At this meeting,  
5 DOE will propose CAU milestones for target and planning  
6 funding levels, as appropriate. DOE may choose to develop  
7 milestones above the target funding level, but shall  
8 identify which proposed milestones are above the target  
9 case. NDEP, under its authority, may establish deadlines  
10 for any milestones for DOE and DoD activities subsequent  
11 to the prioritization process established in Appendix VI,  
12 Corrective Action Strategy. DoD asserts it is not able to  
13 commit to these FY+2 enforceable dates. Prioritized CAUs  
14 with their associated milestones, due dates, and/or  
15 deadlines shall be listed in [Appendix III, Corrective  
16 Action Investigations/Corrective Actions](#). Parties reserve  
17 the right to invoke [paragraph IX.1](#) if an issue is not  
18 resolved. Subsequent to this meeting, input on the  
19 proposed priorities will be sought from the public and the  
20 Community Advisory Board. **DOE and DoD, in cooperation  
21 with NDEP, will develop a final prioritization of CAUs for  
22 CAIs and corrective actions with the setting of deadlines  
23 by NDEP by March 15.**

24  
25 XII.4.c. During the quarterly meeting held during the  
26 fiscal year fourth quarter, the parties shall review and  
27 reconsider established priorities, milestones, and  
28 associated due dates and deadlines for CAUs considering  
29 factors established in [Appendix VI, Corrective Action  
30 Strategy](#), and the President's budget for FY+1. Parties  
31 reserve the right to invoke [paragraph IX.1](#) if an issue is  
32 not resolved.  
33

34 XII.5. One (1) milestone, with an associated due date or  
35 deadline, beyond FY+2 will be established for the completion of  
36 UGTA. In addition, at any one time, one (1) other milestone, with  
37 an associated due date or deadline, besides the completion  
38 milestone can be established for UGTA beyond the FY+2 window. Once  
39 this other milestone moves into the FY+2 window, an additional  
40 milestone beyond FY+2 can be established such that two outyear  
41 milestones (one of which is the completion milestone) can always  
42 exist for UGTA. These milestones, established beyond the FY+2  
43 window, will be based on assumptions used for planning and  
44 understandings of the CAUs at the time of their establishment. If  
45 the assumptions or understandings change, the milestones may be  
46 reevaluated. The parties recognize that current assumptions, as  
47 stated in Appendix VI, Corrective Action Strategy, are preliminary  
48 and may change as additional technical information is acquired.

1 XII.6. The timeframes for submittals, activities, and tasks shall  
2 be established in the appropriate planning documents and may be  
3 bounded by the deadlines established in [Appendix III, Corrective](#)  
4 [Action Investigations/Corrective Actions](#).

5  
6 XII.7. Once a CAI has been completed, DOE or DoD shall submit a  
7 CADD, which includes evaluation of alternatives, to NDEP for its  
8 evaluation. Prior to approving proposed actions, NDEP may seek  
9 public comment which includes input from the Community Advisory  
10 Board. If a corrective action is required, a CAP will be prepared  
11 to guide the subsequent corrective action.

12  
13 XII.8. NDEP shall, within thirty (30) calendar days of receipt of  
14 a submittal, unless otherwise specified in this Agreement, provide:

15  
16 XII.8.a. Approval, with or without comments on the  
17 submittal;

18  
19 XII.8.b. Disapproval with comments; or

20  
21 XII.8.c. A timeframe within which NDEP's review will be  
22 completed.

23  
24 XII.9. Upon completion and NDEP approval of the corrective  
25 actions, Notices of Completion shall be transmitted to DOE and/or  
26 DoD as appropriate and the CAU will move to [Appendix IV, Closed](#)  
27 [Corrective Action Units](#). Appendix IV will also identify which CASS  
28 or CAUs require long-term monitoring.

29  
30  
31 **PART XIII. SAMPLING AND DATA/DOCUMENT AVAILABILITY**

32  
33 XIII.1. The timeframes for the initial availability of any  
34 quality-assured results from sampling and monitoring shall be  
35 identified in the CAU plans and CAP schedules for each CAU. DOE  
36 and/or DoD shall make available existing quality-assured data from  
37 sampling, tests, and other activities generated pursuant to this  
38 Agreement within thirty (30) calendar days following a request.  
39 This requirement is hereby established as the deadline pursuant to  
40 this Agreement. NDEP may request all sampling data (including raw  
41 data), to be incorporated into the submittal.

42  
43 XIII.2. NDEP, at its request, shall be provided split or duplicate  
44 samples of all samples collected by DOE and/or DoD pursuant to this  
45 Agreement. NDEP shall provide, upon request of any party's  
46 corrective action coordinators, split or duplicate samples of all  
47 samples collected by NDEP pursuant to this Agreement. Any party  
48 requesting split or duplicate samples from another party shall

1 provide its own sample container(s) at the time of the sampling  
2 event and is responsible for the management and analysis of any  
3 such samples.

4  
5 XIII.3. NDEP may inspect and have copies provided, subject to  
6 restrictions relating to classification and other applicable  
7 privileges, any and all records, files, photographs, documents, and  
8 other writings (including sampling and monitoring data), pertaining  
9 to work undertaken, or planned to be undertaken, pursuant to this  
10 Agreement. Originals shall remain in the custody of DOE, DoD, and  
11 their respective contractors.

12  
13  
14 **PART XIV.            ACCESS**

15  
16 XIV.1. Subject to DOE and/or DoD security requirements,  
17 applicable health and safety plans, and health and safety officers'  
18 instructions, NDEP personnel, with appropriate safety and security  
19 clearances, shall have authority to enter CAU work sites and DOE  
20 and DoD locations during normal business hours with or without  
21 advance notification. Following notification of DOE and/or DoD,  
22 NDEP shall to the extent authorized by law have authority to enter  
23 contractor locations to review applicable records and information.  
24 Access may be sought for the following purposes among others:

25  
26           XIV.1.a. Inspection of records, operating logs,  
27           contracts, and other documents related to implementation  
28           of this Agreement;

29  
30           XIV.1.b. Reviewing the progress of DOE and/or DoD in  
31           implementing the terms and conditions of this Agreement;

32  
33           XIV.1.c. Verification of data related to implementation  
34           of this Agreement; and

35  
36           XIV.1.d. Observation of Agreement-related work in  
37           progress.

38  
39 XIV.2. Escorts of NDEP personnel to restricted areas where work  
40 is ongoing at a CAU shall not be required where facility/locality-  
41 specific security, health, and safety requirements are understood  
42 and adhered to by the unescorted NDEP personnel. Unescorted NDEP  
43 personnel shall sign a release of liability before undertaking any  
44 unescorted visit of a restricted site.

45  
46 XIV.3. No reasonable access shall be denied NDEP personnel with  
47 appropriate certifications and clearances on Agreement-related  
48 business. If access is denied, the stated reasons for any denial

1 of access to NDEP personnel to any of the facilities or to any of  
2 the localities of any of the CAUS shall be provided to NDEP within  
3 one (1) business day.

4  
5 XIV.4. To the extent that compliance with this Agreement requires  
6 access to property administered or owned by parties other than DOE,  
7 such as the Air Force, other federal entities, and private parties,  
8 DOE shall use the maximum extent of its influence and authority to  
9 obtain access agreements for DOE, NDEP, and the authorized  
10 employees and contractors of each of the parties. DOE shall  
11 provide a certified copy of any such signed access agreements to  
12 NDEP within ten (10) calendar days of DOE receipt of the document.  
13 As appropriate, DOE may negotiate the inclusion of such access  
14 agreements as provisions to existing Memoranda of Understanding  
15 with other federal entities. Activities conducted under this  
16 Agreement on Air Force-administered lands will be scheduled on a  
17 non-interference basis with ongoing Air Force activities.

18  
19 XIV.5. With respect to non-DOE property upon which monitoring  
20 wells, pumping wells, treatment units, or other related systems are  
21 to be located, DOE shall use its best efforts to obtain access  
22 agreements that provide:

23  
24 XIV.5.a. That no conveyance of title, easement, or other  
25 interest in the property shall be consummated without  
26 provisions for the continued operation of such wells,  
27 treatment units, or other Agreement-related action on the  
28 property;

29  
30 XIV.5.b. That owners of any property where monitoring  
31 wells, pumping wells, treatment units, or other  
32 installations are located shall notify DOE by certified  
33 mail, at least ninety (90) calendar days prior to any  
34 conveyance, of the property owner's intent to convey any  
35 interest in the property;

36  
37 XIV.5.c. That DOE shall notify NDEP of the provisions  
38 made for the continued operation of the monitoring wells,  
39 treatment units, or other systems installed pursuant to  
40 this Agreement;

41  
42 XIV.5.d. DOE shall provide NDEP with a certified copy of  
43 each agreement for the continued operation of any  
44 monitoring wells, treatment units, or other systems  
45 installed pursuant to this Agreement within ten (10)  
46 calendar days of the receipt of the final agreement.

47  
48

1 **PART XV.                    OBLIGATIONS OF DOE AND DoD**  
2

3 XV.1.     DOE and DoD shall take all necessary steps as set forth in  
4 [paragraphs XV.8](#) through [XV.11](#) to obtain timely funding to meet  
5 their obligations under this Agreement through consultation with  
6 the parties and the submission of timely budget requests.  
7

8 XV.2.     Such obligations include, but are not limited to, updates  
9 to [Appendix II, Corrective Action Sites/Units](#), the corrective  
10 action investigation/corrective action activities identified in  
11 [Appendix III](#), any monitoring required pursuant to [Appendix IV](#), the  
12 Public Involvement Plan activities required pursuant to [Appendix V](#),  
13 and support of NDEP's administrative and regulatory activities to  
14 be performed in conjunction with oversight of corrective action  
15 activities required by this Agreement.  
16

17 XV.3.     The base obligation of DOE and DoD required for NDEP to  
18 oversee activities related to this Agreement shall be determined by  
19 NDEP on a yearly basis, and transmitted to DOE and DoD in a timely  
20 manner prior to the start of each state fiscal year as authorized  
21 by NRS 459.565 and NDEP implementing policy and procedure(s). In  
22 addition, NDEP shall at the same time transmit estimates of its  
23 base obligations for the four succeeding out years to assist DOE  
24 and/or DoD in their respective long-range planning. In accordance  
25 with sections XV.4 and XV.5, DOE and DoD agree to pay fees and  
26 service charges, consistent with §6001 of RCRA (42 U.S.C. §6961),  
27 at a rate which would be assessed for similar activities on any  
28 person for which NDEP provides oversight of corrective action  
29 activities under applicable state law. If the parties disagree on  
30 the fees and service charges, [Part IX, Informal Dispute Resolution](#)  
31 [and Appeal Procedure](#), may be invoked.  
32

33 XV.4     On an annual basis, NDEP shall submit its estimated fee(s)  
34 for its obligations to be incurred to DOE. DOE shall in turn,  
35 within thirty (30) calendar days after October 1 of each year  
36 unless otherwise agreed, make a deposit with NDEP sufficient to  
37 meet that obligation for NDEP oversight of DOE activities.  
38

39 XV.5.     Reimbursement of costs/fees associated with services/  
40 oversight of DoD's corrective action investigation and/or  
41 corrective action activities shall be recoverable by NDEP through  
42 the Defense/State Memorandum of Agreement and Cooperative Agreement  
43 (DSMOA/CA). These services/oversight and accounting procedures,  
44 including procedures for NDEP reimbursement, will be in accordance  
45 with the DSMOA/CA. In the event that the DSMOA/CA Program is  
46 modified, altered, ended or it fails to meet services/oversight  
47 costs/fees, DoD shall remain liable for payment of these costs/fees  
48 with appropriated Defense Environmental Restoration Act (DERA)

1 funds.

2  
3 XV.6. NDEP's estimate of its regulatory oversight obligational  
4 requirements for each successive year shall take into account any  
5 projected differences between the previous year's estimated  
6 obligational requirements and the actual regulatory oversight  
7 obligations incurred by NDEP that year and will be submitted on or  
8 before April 1 of each year to the appropriate party. By  
9 September 1 of each year, all reconciliation for the prior state FY  
10 will have been accomplished.

11  
12 XV.7. In accordance with the DOE and/or DoD's respective rules  
13 and policies applicable to the release of budgetary/contracting  
14 information in effect at the time of the signing of this Agreement,  
15 DOE and DoD shall make the scope of work and the budgets to be used  
16 in implementing the terms of this Agreement available to NDEP.  
17 Submittal of the scope of work and budgets will occur in  
18 conjunction with the establishment of milestones and priorities as  
19 identified in [Part XII, Corrective Action Investigations/Corrective](#)  
20 [Actions](#). Upon request by NDEP and in accordance with applicable  
21 restrictions, DOE and DoD shall also provide to NDEP the identity,  
22 scope of work, and Agreement-related restoration budgets of any  
23 entity or agency performing work related to this Agreement.

24  
25 XV.8. Prior to the annual submission of DOE/NV's and DoD/NV's  
26 budget requests to their respective Headquarters, DOE for its FY+2  
27 budget, and DoD for its five-year planning budget, NDEP shall be  
28 given the following:

29  
30 XV.8.a. Briefings on the proposed budget requests for  
31 environmental management for the facilities, any  
32 supporting documents, and target funding levels for  
33 environmental management for the facilities, including an  
34 assessment of any impacts on this Agreement.

35  
36 XV.8.b. The opportunity to review, comment, and make  
37 recommendations on the priorities and budget request.

38  
39 XV.9. DOE shall, to the extent it deems appropriate, revise its  
40 FY+2 budget requests and supporting documents to address or resolve  
41 NDEP's comments and recommendations prior to transmittal to the  
42 Headquarters. DOE shall forward to its Headquarters in its budget  
43 requests any comments not fully resolved to the satisfaction of all  
44 parties and any additional activities identified by NDEP along with  
45 the projected budget requirements for such activities.

46  
47 XV.10. DOE Headquarters shall forward to the Office of Management  
48 and Budget for consideration, its FY+2 budget requests along with

1 any unresolved comments and additional activities with related  
2 budget requirements identified by NDEP pursuant to [paragraph XV.9](#).

3  
4 XV.11. In accordance with established Department of Defense  
5 policy as of the date of the signing of this Agreement, DoD  
6 Headquarters shall forward its FY+2 restoration budget requests,  
7 which will identify activities mandated by regulatory  
8 considerations to the Deputy Under Secretary of Defense,  
9 Environmental Security (DUSD)(ES)for consideration. DUSD(ES) is  
10 responsible for consolidating Defense Agency submissions and  
11 forwarding this along with all other Defense Service requests to  
12 the Under Secretary of Defense Comptroller for incorporation into  
13 the President's Budget Request.

14  
15 XV.12. NDEP agrees not to release confidential budget information  
16 to anyone prior to submission by the President of his Budget  
17 Request to Congress, unless authorized by DOE or required to do so  
18 by court order. DOE may seek to intervene in any proceeding  
19 brought to compel or enjoin release of this information. If  
20 allowed to intervene, DOE shall assert its interest in and the  
21 legal basis for maintaining the confidentiality of this  
22 information.

23  
24 XV.13. DOE and DoD will provide to NDEP sections of the  
25 President's Budget Request to Congress pertaining to the  
26 facilities' environmental restoration programs in a timely manner  
27 after submittal by the President to Congress. DOE and DoD shall  
28 notify NDEP of any differences between the proposed budget requests  
29 submitted in accordance with [paragraph XV.9](#) and the actual requests  
30 included in the President's Budget Request to Congress.

31  
32 XV.14. If funding has been requested as described in paragraphs  
33 [XV.8](#) through XV.11 and in the event that the U.S. Congress has  
34 failed to appropriate the funds so requested for Agreement  
35 milestones, the parties shall review the level of presently  
36 available appropriated funds and the estimated cost of meeting all  
37 obligations and requirements under this Agreement. DOE and/or DoD  
38 shall transmit to NDEP for its review a proposed alternate schedule  
39 and level of activities to satisfy the terms and conditions of this  
40 Agreement. If agreement cannot be reached on an alternate schedule  
41 and if NDEP does not approve a modified alternate schedule and  
42 level of activity, should DOE and/or DoD choose to appeal, the  
43 appeal procedure contained in [paragraph IX.2](#) will be followed.

44  
45 XV.15. If DOE and/or DoD fail to comply with the terms of this  
46 Agreement (including payment of NDEP oversight costs), NDEP may  
47 pursue all available remedies to ensure performance and compliance.

1 **PART XVI.            NOTIFICATION AND AGENCY COORDINATION**  
2

3 XVI.1. Documents shall be sent to NDEP in a manner designed to be  
4 received by the date due in either the Carson City or Las Vegas  
5 office. Formal requests by any party to this Agreement of any  
6 other party to this Agreement shall be in writing.  
7

8 XVI.2. Unless otherwise specified by written notice to the  
9 agreement coordinators of DOE and DoD, any report, document, or  
10 submittal provided to NDEP, pursuant to a milestone or deadline  
11 identified in or developed under the provisions of this Agreement,  
12 shall be sent to:

13  
14           Chief  
15           Bureau of Federal Facilities  
16           Division of Environmental Protection  
17           333 West Nye Lane  
18           Carson City, Nevada 89710  
19

20 with an additional copy provided concurrently to:

21  
22           Bureau of Federal Facilities  
23           Division of Environmental Protection  
24           555 E. Washington, Suite 4300  
25           Las Vegas, Nevada 89101  
26

27 XVI.3. Unless otherwise specified by written notice from DOE to  
28 the agreement coordinators of the other parties, documents sent to  
29 DOE relating to this Agreement shall be sent to:

30  
31           Director, Environmental Restoration Division  
32           U.S. Department of Energy  
33           Nevada Operations Office  
34           P. O. Box 98518  
35           Las Vegas, Nevada 89193-8518  
36

37 with an additional copy provided concurrently to:

38  
39           Director, Environmental Protection Division  
40           U. S. Department of Energy  
41           Nevada Operations Office  
42           P. O. Box 98518  
43           Las Vegas, Nevada 89193-8518  
44

45 XVI.4. Documents sent to DoD shall be sent to the attention of  
46 the DoD agreement coordinator as follows, unless DoD specifies  
47 otherwise by written notice to the corrective action coordinators  
48 of the other parties:

1 Chief, Technical Compliance Division  
2 Defense Nuclear Agency  
3 Field Command, Nevada Operations Office  
4 P.O. Box 208  
5 Mercury, Nevada 89023  
6

7 with an additional copy provided concurrently to:

8  
9 Director, Environmental Protection Division  
10 U.S. Department of Energy  
11 Nevada Operations Office  
12 P. O. Box 98518  
13 Las Vegas, Nevada 89193-8518  
14

15 XVI.5. Within thirty (30) calendar days of the effective date of  
16 this Agreement, the parties shall notify each other in writing of  
17 the names and addresses of their respective agreement coordinators  
18 and corrective action coordinators and their designees who shall be  
19 the usual day-to-day points of contact for DOE and DoD  
20 respectively.  
21

22 XVI.6. Each corrective action coordinator shall be responsible  
23 for overseeing the day-to-day implementation of the provisions of  
24 this Agreement for his/her respective party.  
25

26 XVI.7. Each agreement coordinator works with the party's  
27 corrective action coordinator(s) and shall be responsible for  
28 assuring that all communications from the other parties are  
29 appropriately disseminated and processed within his/her own  
30 organization.  
31

32 XVI.8. Changes in any of the parties' Agreement coordinators or  
33 corrective action coordinators and their designees shall be  
34 followed by written notification to the other parties within ten  
35 (10) calendar days following the change(s).  
36

37 XVI.9. The NDEP corrective action coordinator and his/her  
38 designees shall have the authority to, among other things:  
39

40 XVI.9.a. Take, or cause to be taken, samples, duplicate  
41 samples, split samples, and/or sub-samples of samples  
42 collected by DOE and/or DoD;  
43

44 XVI.9.b. Ensure, so far as possible, that field and  
45 laboratory work are performed pursuant to NDEP-approved  
46 CAI work plans;  
47

48 XVI.9.c. Observe, and/or cause to be observed, all

1 activities performed pursuant to this Agreement; take  
2 and/or cause to be taken, photographs consistent with  
3 security restrictions, for which purpose DOE consents that  
4 DOE "Q" clearances, photographer's permits/official  
5 photographer designations shall be issued to qualified  
6 NDEP personnel as required by NDEP for this purpose;  
7

8 XVI.9.d. Review and/or cause to be reviewed, all records,  
9 files, and documents relevant to this Agreement, with the  
10 determination as to what constitutes relevance made by  
11 NDEP.  
12

13 XVI.10. The DOE and/or DoD corrective action coordinators and  
14 their representatives may implement modifications to the field work  
15 to be performed pursuant to an approved work plan and will notify  
16 NDEP of such action. This does not relieve either DOE or DoD of  
17 their respective requirements to meet the performance objectives of  
18 the approved work plan.  
19

20  
21 **PART XVII. PUBLIC INVOLVEMENT**  
22

23 XVII.1. [Appendix V, Public Involvement Plan](#), shall contain a  
24 mechanism for continually providing information and for actively  
25 seeking public input (including input from the Community Advisory  
26 Board), concerning DOE and DoD activities undertaken pursuant to  
27 this Agreement.  
28

29 XVII.2. The Public Involvement Plan's objectives include, among  
30 others:  
31

32 XVII.2.a. Identifying and considering the public's  
33 concerns, needs, and values prior to making decisions;  
34

35 XVII.2.b. Providing an outline of activities and materials  
36 which offer accurate, timely, and understandable  
37 information to stakeholders (including the general  
38 public);  
39

40 XVII.2.c. Fulfilling all applicable state and federal  
41 regulatory requirements regarding public involvement;  
42

43 XVII.2.d. Planning public involvement activities to  
44 reflect current schedules and priorities contained in this  
45 Agreement.  
46

47 XVII.3. At a minimum, public reading rooms shall be located within  
48 the two major population centers in the state, one in the north and

1 one in the south. Based on continuing public input, the parties  
2 shall annually evaluate the need for additional public reading  
3 rooms.

4  
5 XVII.4. The public reading rooms shall contain the following, when  
6 prepared:

7  
8 XVII.4.a. CAI work plans and reports;

9  
10 XVII.4.b. Corrective action work plans and reports;

11  
12 XVII.4.c. CADDs;

13  
14 XVII.4.d. Health assessments;

15  
16 XVII.4.e. Risk assessments;

17  
18 XVII.4.f. Comments and information submitted by the  
19 public;

20  
21 XVII.4.g. National Environmental Policy Act documents;

22  
23 XVII.4.h. Public Involvement Plan;

24  
25 XVII.4.i. Public notices;

26  
27 XVII.4.j. This Agreement;

28  
29 XVII.4.k. RCRA Permit for NTS;

30  
31 XVII.4.l. DOE/NDEP Mutual Consent Agreement; and

32  
33 XVII.4.m. Index of the environmental restoration documents  
34 in the public reading room and information on how to  
35 acquire further environmental restoration information from  
36 NDEP, DOE, or DoD.

37  
38  
39 **PART XVIII. RETENTION OF RECORDS**

40  
41 XVIII.1. DOE and DoD shall establish and maintain a compilation  
42 of all work plans, data reports, numerical models, numerical model  
43 results, monitoring results, and other writings generated pursuant  
44 to this Agreement in accordance with DOE and DoD records retention  
45 procedures.

46  
47 XVIII.2. Such information shall be available to NDEP upon  
48 request and will form part of the basis for information to be

1 included in the NDEP's Administrative Record, which includes, but  
2 is not limited to, those documents cited in [paragraph XVII.4](#). NDEP  
3 shall maintain the Administrative Record in accordance with the  
4 requirements of NRS Chapter 239.

5  
6 XVIII.3. DOE and DoD shall notify NDEP at least one hundred  
7 eighty (180) calendar days prior to the proposed destruction or  
8 disposal of any documents or records described in this part.

9  
10  
11 **PART XIX. CONVEYANCE OF TITLE**

12  
13 XIX.1. No conveyance of title, easement, or other interest in any  
14 of the facilities on which any containment system, treatment  
15 system, monitoring system, or other construct is installed or  
16 implemented or may be installed or implemented pursuant to this  
17 Agreement, shall be consummated by DOE and/or DoD and/or any  
18 contractor and/or subcontractor to DOE and/or DoD respectively,  
19 without provision for continued maintenance of any such system or  
20 other response action(s).

21  
22 XIX.2. At least one hundred twenty (120) calendar days prior to  
23 any such proposed conveyance, DOE and/or DoD shall notify NDEP of  
24 the provisions made for the continued operation and maintenance of  
25 any system(s) installed or implemented pursuant to this Agreement.

26  
27  
28 **PART XX. SEVERABILITY**

29  
30 XX.1. If any provision of this Agreement (which may include any  
31 activity conducted pursuant to this Agreement) is ruled invalid,  
32 unenforceable, unlawful, or unconstitutional by a court of  
33 competent jurisdiction, the remainder of this Agreement (including  
34 other activities taken thereunder) shall not be affected by such  
35 ruling.

36  
37  
38 **PART XXI. CLASSIFIED AND CONFIDENTIAL INFORMATION**

39  
40 XXI.1. Personnel designated by NDEP as requiring DOE "Q"  
41 clearances who have subsequently been issued such "Q" clearances by  
42 the DOE shall be eligible for access to classified information on  
43 a "need to know" basis. Only responsible DOE/DoD officials, with  
44 the authority to do so, may make the determination of the "need to  
45 know." Recipients of the information are responsible for  
46 protecting all classified information to which they have access or  
47 custody. DOE and/or DoD shall provide within ten (10) business  
48 days of such refusal a written response to NDEP requests for

1 information related to the Agreement for which they have determined  
2 that a "need to know" is not justified. This requirement is hereby  
3 established as a deadline. The response shall be complete and  
4 specific as to the information that is nondisclosable.

5  
6 XXI.2. Analytical data and the results of numerical modeling,  
7 with the exception of data and modeling results determined to be  
8 classified for reasons of National Security, shall not be claimed  
9 as nondisclosable.

10  
11 XXI.3. Those data, documents, records, or files that are  
12 nondisclosable pursuant to applicable privileges and laws including  
13 the Freedom of Information Act, 5 U.S.C. §552, and the Privacy Act  
14 of 1972, 5 U.S.C. §552(a), unless expressly authorized for release  
15 by the originating party, shall be handled in accordance with those  
16 provisions of law and any implementing regulations. Upon  
17 submission of reports, letters, or other Agreement-related writings  
18 to NDEP, DOE or DoD shall identify any materials determined by DOE  
19 or DoD to be exempt from public disclosure pursuant to the Freedom  
20 of Information Act and to the extent required by state law, such  
21 materials shall be handled as exempt from public disclosure by  
22 NDEP. NDEP will notify the appropriate party within 30 days of its  
23 intent to release the information should a determination to release  
24 the information be made.

25  
26  
27 **PART XXII. FORCE MAJEURE**

28  
29 XXII.1. A Force Majeure shall mean an event arising from  
30 unforeseeable factor(s) that is (are) beyond the control of DOE  
31 and/or DoD and/or their respective contractors, subcontractors,  
32 and/or operators, which causes delay, or prevents the performance  
33 of any task specified under this Agreement. Force Majeure may  
34 include:

35  
36 XXII.1.a. Adverse weather conditions, natural disasters,  
37 or events that affect the site or non-site locations,  
38 preventing or delaying the transportation or delivery of  
39 materials or the availability of labor, that could not  
40 reasonably be anticipated;

41  
42 XXII.1.b. Unanticipated breakage or accident to machinery,  
43 equipment, or lines of pipe despite reasonably diligent  
44 maintenance;

45  
46 XXII.1.c. Restraint by court order or order of public  
47 authority;

48

1 XXII.1.d. Inability to obtain, consistent with statutory  
2 requirements and after exercise of reasonable diligence,  
3 any necessary authorizations, approvals, permits, or  
4 licenses due to action or inaction of any governmental  
5 agency or authority other than the DOE or DoD;  
6

7 XXII.1.e. Delays caused by compliance with applicable  
8 statutes or regulations governing contracting, procurement  
9 or acquisition procedures, despite the exercise of  
10 reasonable diligence; and  
11

12 XXII.1.f. Any strike or other labor dispute not within the  
13 control of the parties thereby affected.  
14

15 XXII.2. DOE and DoD assert that their ability to meet  
16 obligations under this Agreement is subject to the Anti-Deficiency  
17 Act, 31 U.S.C. §1341, such that unavailability of funding provides  
18 a defense pursuant to this Part. Nothing in this Agreement shall  
19 be construed to require a DOE or DoD official to violate the Anti-  
20 Deficiency Act. NDEP does not recognize that the Anti-Deficiency  
21 Act constitutes a Force Majeure or in any way constitutes a defense  
22 or an excuse for failure to comply with the terms and conditions of  
23 this Agreement and applicable state and federal laws and  
24 requirements. Nothing in this Agreement shall be construed to  
25 authorize a DOE or DoD official to violate environmental laws and  
26 regulations.  
27

28 XXII.3. DOE and/or DoD shall bear the burden of establishing  
29 that a delay was caused by an unforeseen or unexpected event or  
30 occurrence; that the event was beyond the control of DOE and/or  
31 DoD; that the event could not have been avoided or overcome by due  
32 diligence; and that the event delayed or prevented performance by  
33 a date or in the manner required by this Agreement.  
34

35 XXII.4. To assert a claim of Force Majeure, DOE and/or DoD  
36 shall provide verbal notification to the state agreement  
37 coordinator after DOE and/or DoD becomes aware of the effect of the  
38 event on DOE's and/or DoD's ability to perform the obligations of  
39 the Agreement creating the claim of Force Majeure, followed by  
40 written confirmation. Failure to assert a claim of Force Majeure  
41 shall constitute a waiver of DOE's and/or DoD's right to dispute  
42 any denial of an extension request or assessment of stipulated  
43 penalties on the basis of the event giving rise to the alleged  
44 Force Majeure.  
45

46 XXII.5. NDEP shall transmit to DOE and/or DoD its written  
47 acceptance, acceptance in part, or rejection of DOE's and/or DoD's  
48 claim of Force Majeure within fourteen (14) calendar days of

1 receipt of the written notice of claim. If DOE and/or DoD disagree  
2 with NDEP's rejection on such claim, the dispute resolution and  
3 appeal process contained in Part IX, Informal Dispute Resolution  
4 and Appeal Procedure, may be initiated. For disputes on Force  
5 Majeure issues, if the dispute is not resolved during the dispute  
6 resolution process set forth in paragraph IX.2, the parties agree  
7 that the DOE and DoD may seek judicial review of the decision of  
8 the SEC in Federal District Court for Nevada.

9  
10  
11 **PART XXIII. MUTUALITY TO DRAFT OF AGREEMENT**

12  
13 XXIII.1. All terms of this Agreement have been negotiated and  
14 mutually drafted by the parties hereto, including consultation with  
15 and review by counsel.

16  
17  
18 **PART XXIV. EFFECTIVE DATE OF AGREEMENT**

19  
20 XXIV.1. The effective date of this Agreement shall be the date on  
21 which the last party to do so becomes a signatory to this  
22 Agreement.

23  
24  
25 **PART XXV. DURATION/TERMINATION**

26  
27 XXV.1. Upon satisfactory completion, as determined by NDEP, of a  
28 given milestone in Appendix III, Corrective Action  
29 Investigations/Corrective Actions, NDEP shall issue a Notice of  
30 Completion to DOE and/or DoD for completion of enforceable  
31 milestones.

32  
33 XXV.2. When a corrective action has been carried out in  
34 accordance with the CAP NDEP will issue a Notice of Completion to  
35 DOE and/or DoD as appropriate. Following the issuance of a Notice  
36 of Completion, the CAU for which the corrective action was carried  
37 out shall be listed in Appendix IV, Closed Corrective Action Units,  
38 with the list of related CASS.

39  
40 XXV.3. When all the terms and conditions of this Agreement shall  
41 be considered, by NDEP, to have been satisfied by DOE and/or DoD,  
42 including satisfactory completion of corrective actions for all  
43 CAUs identified for and during the tenure of this Agreement,  
44 written notice of the same will be forwarded from NDEP to DOE  
45 and/or DoD and such written notice will terminate this Agreement.

46  
47  
48

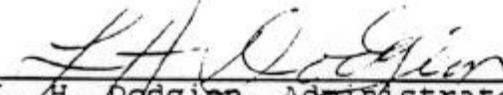
1 **PART XXVI. MERGER AND INTEGRATION**  
2

3 XXVI.1. This Agreement merges all prior written and oral  
4 communications among the parties concerning this Agreement and  
5 contains the final and complete agreement reached by the parties  
6 unless subsequently amended in accordance with Part XI, Amendments  
7 and Modifications.  
8  
9

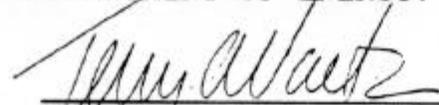
10 **PART XXVII. SIGNATORIES**  
11

12 XXVII.1. The undersigned representatives certify that they are  
13 fully authorized to enter into this Agreement and to execute and  
14 legally bind their respective parties hereto.  
15

16  
17 FOR THE STATE OF NEVADA: -  
18

19  
20 BY:  3/26/96  
21 L. H. Dodgion, Administrator Date  
22 Nevada Division of Environmental Protection  
23  
24

25 FOR THE DEPARTMENT OF ENERGY:  
26

27  
28 BY:  4/4/96  
29 Terry A. Vaeth, Acting Manager Date  
30 Nevada Operations Office  
31

32  
33 FOR THE DEPARTMENT OF DEFENSE  
34

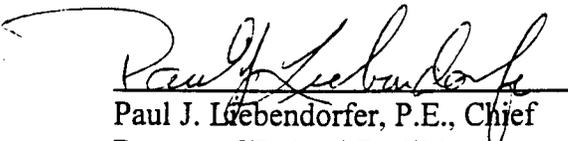
35  
36 BY:  5/10/96  
37 ~~Paul S. Kaminski~~ Date  
38 ~~Under Secretary of Defense Acquisition Technology~~  
39 GARY L. CURTIN  
40 Major General, USAF  
41 Director, Defense Nuclear Agency  
42  
43  
44  
45  
46  
47  
48

**Letter Agreement to Modify the  
Federal Facility Agreement and Consent Order**

The U.S. Department of Energy, Nevada Operations Office (DOE/NV), the Nevada Division of Environmental Protection (NDEP) and the Department of Defense (DoD) have agreed that paragraph XI.3 of the May 10, 1996, version of the Federal Facility Agreement and Consent Order requires revision. In the interim until the Agreement itself is resigned, the parties intend to comply with a revised provision as described below. This change will allow DOE and NDEP to make changes consistent with the current needs of the Underground Test Area (UGTA) project, specifically it will allow us to update assumptions, the project end date, and the number of Corrective Action Units (CAUs) that can be opened at any one time. All of these subsequent changes to the UGTA strategy would be made following discussions and agreements between the affected Parties. Paragraph XI.3 shall be changed to read as follows:

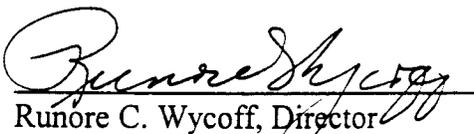
“XI.3. This Agreement shall not be modified unless such modification is in writing and signed by all affected parties. Changes to Appendices V, Public Involvement Plan, Appendix VI, Corrective Action Strategy (in order to address and incorporate new technical information per Paragraph XII.5), and the movement of CAUs between appendices as specified in Part V, Description of Appendices, and as specified in Part XII, Corrective Action Investigations/Corrective Actions, shall not be considered modifications of this agreement.”

State of Nevada:

  
Paul J. Liebendorfer, P.E., Chief  
Bureau of Federal Facilities  
and FFACO Agreement Coordinator

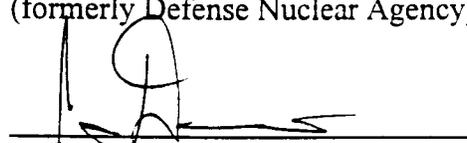
7/19/00  
Date

U.S. Department of Energy:

  
Runore C. Wycoff, Director  
Environmental Restoration Division  
and FFACO Agreement Coordinator

7/12/01  
Date

Defense Threat Reduction Agency:  
(formerly Defense Nuclear Agency)

  
Dr. Jay Davis  
Director

8/30/02  
Date

Letter Agreement to Modify the  
Federal Facility Agreement and Consent Order

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP) and the U. S. Department of Defense (DoD) have agreed that paragraph VII.4 of the May 10, 1996, version of the Federal Facility Agreement and Consent Order (FFACO) requires revision. In the interim until the Agreement itself is resigned, the parties intend to comply with a revised provision as described below. This change affects the reporting requirement to the NDEP as is related to the reporting of field activities. The reporting requirement is changed from a frequency of "bi-weekly" to "monthly." In addition all other guidance related to and citations of the reporting requirements of field activities shall be changed as previously mentioned, including standardized document outlines. Paragraph VII.4 shall be changed to read as follows:

"VII.4. DOE and DoD shall include in their quarterly reports a three-month advance schedule outlining field activities (including the field activities of their respective contractors, subcontractors, operators, and agents), proposed to be implemented under this Agreement. A more detailed schedule shall be provided to NDEP on a *monthly* basis, and shall provide the specific dates for conducting these activities for the subsequent *month*, thereby enabling NDEP to select those activities it deems appropriate to observe."

State of Nevada:

Terre Maize  
Terre A. Maize, Chief  
Bureau of Federal Facilities  
and FFACO Agreement Coordinator

4/5/04  
Date

National Nuclear Security Administration:

Jane Appenzeller-Wing  
Janet Appenzeller-Wing, Acting Director  
Environmental Restoration Division  
and FFACO Agreement Coordinator

3/31/04  
Date

Defense Threat Reduction Agency:

Trudy H. Clark  
Trudy H. Clark, Major General, USAF  
Acting Director

22 Mar 04  
Date

## **Letter Agreement to Modify the Federal Facility Agreement and Consent Order**

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP) and the U. S. Department of Defense (DoD) have agreed to modify the May 10, 1996 version of the Federal Facility Agreement and Consent Order. In the interim until the Agreement itself is resigned, the parties intend to comply with the revised provisions as described below. This modification reflects the understanding and commitments between the parties regarding activities at the Central Nevada Test Area (CNTA) and at the Project Shoal Area (PSA). Although these two sites are considered 'Offsite' from the Nevada Test Site proper, the CNTA and PSA will be transferred to the Office of Legacy Management (LM) within the Department of Energy on October 1, 2006. LM is the component of DOE tasked with long-term surveillance and maintenance for CNTA and PSA.

Scope: The Nevada sites, specifically CNTA and PSA, will continue to be addressed through the FFACO in cooperation with LM. In recognition of the cooperative effort between LM and EM on the management of CNTA and PSA, specific duties and responsibilities of the parties are detailed below:

The following describes the roles of NNSA NSO; DOE/LM; and the State of Nevada (NDEP) with regard to this effort:

Nevada Division of Environmental Protection (NDEP) will:

- Continue to be a Party to the FFACO regarding the Offsites, specifically CNTA and PSA, and continue all previous obligations under the FFACO dated May 10, 1996 as amended.

National Nuclear Security Agency Nevada Site Office (NNSA NSO) will:

- Provide sensitive or classified information to appropriately cleared NDEP staff (consistent with national security requirements under the Atomic Energy Act of 1954, as amended); brief personnel about classified aspects of the project; and perform a classification review on prepared NDEP documents, when necessary.

Department of Energy, Office of Legacy Management (DOE/LM) will:

- Assume all DOE responsibility, and implement all DOE requirements outlined in Appendix VI Section 5.0 'Offsites', more specifically the Corrective Action Strategy and the Implementing Corrective Action Investigations and Corrective Actions of the FFACO.

State of Nevada:

 For

Leo M. Drozdoff, Administrator  
Department of Conservation and Natural Resources  
Division of Environmental Protection

6/20/2006  
Date

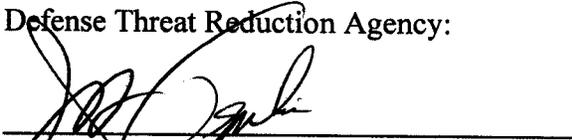
National Nuclear Security Administration:



Jay H. Norman, Acting Manager  
Nevada Site Office

7/6/06  
Date

Defense Threat Reduction Agency:



James A. Fegnotia  
Director

5/23/06  
Date

Department of Energy:



Michael Owen, LM-1  
Office of Legacy Management

6/15/06  
Date

## **Letter Agreement to Modify the Federal Facility Agreement and Consent Order**

In March 1999 and March 2005 the National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP) and the U. S. Department of Defense (DoD) agreed to changes in the May 10, 1996 version of the *Federal Facility Agreement and Consent Order* (copies of these two letter agreement modifications are included for your reference). The March 1999 modification was signed to change language in paragraph XII.4.b, from "...*setting of deadlines by NDEP by March 15.*" to read "...*that NDEP will establish deadlines within 30 days of receipt of the final proposed DOE and/or DoD milestones...*". The March 2005 modification was intended to change the language throughout the Agreement from "...*Quarterly Meetings*" to "...*Semi-Annual Meetings*". This modification was signed with the editing markups still visible in the modification, and inserted the previous "...*March 15*" date (which had been removed by the March 1999 modification) as well as the revised verbiage stating "...*within 30 days of receipt...*"

The NNSA/NSO has discussed the error with their Office of Chief Counsel and upon their recommendation, we are requesting that the March 1999 and March 2005 Letter Agreements to Modify the *Federal Facility Agreement and Consent Order* be rescinded and the attached Letter Agreement Modification replace the two previous Modifications.

In the interim, until the Agreement is revised, the parties intend to comply with the provisions as described below. These changes affect the timeframe for NDEP to establish deadline dates for final proposed milestones as well as the frequency and required topics of meetings. The parties have agreed to hold meetings Semi-Annually (instead of quarterly) in February and August. Additionally, the meeting requirements have been changed to accommodate the new schedule.

Paragraph VII.1 shall be changed to read as follows:

Following the effective date of this Agreement, DOE and DoD shall, on or before the 30<sup>th</sup> calendar day following the end of each calendar quarter, submit a written or electronic progress report to NDEP that describes the actions taken during the calendar quarter just ended. This information will serve as a partial basis for the discussions at the semi-annual meetings discussed in paragraph XII.4.

Paragraph VII.6 shall be changed to read as follows:

Semi-annual meetings will be held in February and August of each Fiscal Year in part to discuss any issues raised in or by the quarterly progress reports. These meetings will also serve to initiate the prioritization discussions identified in Part XII, Corrective Action Investigations/Corrective Actions. Parties will attempt to resolve issues during the semi-annual meetings or through other meetings per Paragraph VII.7. Resolution of issues will

be documented, and unresolved issues will be discussed at or before the next semi-annual meeting.

Paragraph VII.7 shall be changed to read as follows:

Parties may meet at times other than the semi-annual meetings as required, for example, if there are events, such as changes in available funding that might affect milestones, especially if those milestones are in the current fiscal year.

Paragraph XII.1 shall be changed to read as follows:

Within sixty (60) calendar days following the signing of this Agreement by the last party to do so, the parties shall meet to review Appendices II-IV and concur on the classification of all presently identified CAUs to insure all known CAUs are placed in the appropriate appendix, and where appropriate, due dates and deadlines established for existing and proposed activities. Following this initial meeting, the semi-annual meeting process outlined in paragraphs XII.3 and XII.4 will begin.

Paragraph XII.3 shall be changed to read as follows:

The parties shall review and update Appendices II through IV as required at semi-annual meetings or through formal correspondence. DOE and DTRA:

XII.3.a. Shall provide NDEP with a list of appendices changes not requiring NDEP approval made since the last semi-annual meeting;

XII.3.b. At any semi-annual meeting or through formal correspondence, may propose changes to the milestones in Appendix III, Corrective Action Investigations/Corrective Actions; move CAUs or CASs from Appendix II, Corrective Action Sites/Units or Appendix III, Corrective Action Investigations/Corrective Actions, to Appendix IV, Closed Corrective Action Units; or request any other changes affecting CAUs or CASs in Appendix III, Corrective Action Investigations/Corrective Actions or Appendix IV, Closed Corrective Action Units.

Paragraph XII.4 shall be changed to read as follows:

Following the transfer of a CAU from Appendix II, Corrective Action Sites/Units, to Appendix III, Corrective Action Investigations/Corrective Actions milestones, associated due dates and deadlines may be proposed by DOE and/or DoD but shall be established by NDEP according to the following semi-annual meeting schedule listed in paragraphs XII.4.a through XII.4.b or through formal correspondence. Except as noted in paragraph XII.5, deadlines may be established for the submittal of work plans, CADDs, CAPs, and completion of corrective actions within the FY+2 planning window. For those work plans, CADDs, CAPs, and corrective actions for which completion may fall outside the planning window (FY+2), interim deadlines may be established within the FY+2

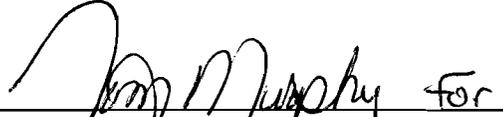
planning window. All deadlines other than those set forth explicitly in this Agreement shall be established pursuant to paragraphs XII.4 and XII.5.

XII.4.a. During the first semi-annual meeting held during the fiscal year, the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for the current fiscal year, taking into consideration the Approved Funding Program and the factors listed in section 1.3 of Appendix VI, Corrective Action Strategy. The parties shall also initiate the process to establish priorities, milestones, and associated due dates for CAUs for FY+2. At this meeting, DOE will propose CAU milestones for target and planning funding levels, as appropriate. DOE may choose to develop milestones above the target funding level, but shall identify which proposed milestones are above the target case. NDEP, under its authority, may establish deadlines for any milestones for DOE and DoD activities subsequent to the prioritization process established in Appendix VI, Corrective Action Strategy. DoD asserts it is not able to commit to these FY+2 enforceable dates. Prioritized CAUs with their associated milestones, due dates, and/or deadlines shall be listed in Appendix III, Corrective Action Investigations/Corrective Actions. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved. Subsequent to this meeting, input on the proposed priorities will be sought from the public and the Community Advisory Board. DOE and DoD, in cooperation with NDEP, will develop a final prioritization of CAUs for CAIs and corrective actions. NDEP will establish deadlines within 30 days of receipt of the final proposed DOE and/or DoD milestones for all prioritized CAU activities it asserts must be incorporated into the FY +2 Budget Request. If the parties cannot agree on deadlines, then Part IX, Informal Dispute Resolution and Appeal Procedure, may be invoked.

XII.4.b. During the second semi-annual meeting held during the fiscal year, the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for CAUs considering factors established in Appendix VI, Corrective Action Strategy, and the President's budget for FY+1. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved.

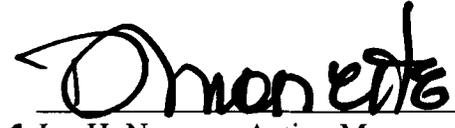
XII.4.c. This section is no longer applicable and will be deleted. Requirements from this section have been incorporated in Section XII.4.b.

State of Nevada:

  
\_\_\_\_\_  
Leo M. Drozdoff, Administrator  
Department of Conservation and Natural Resources  
Division of Environmental Protection

12/6/2006  
Date

National Nuclear Security Administration:

  
\_\_\_\_\_  
Jay H. Norman, Acting Manager  
Nevada Site Office

11.22.06  
Date

Defense Threat Reduction Agency:

  
\_\_\_\_\_  
James A. Tegnela  
Director

14 Jan 07  
Date

Department of Energy:

  
\_\_\_\_\_  
Michael Owen, LM-1  
Office of Legacy Management

01/03/07  
Date

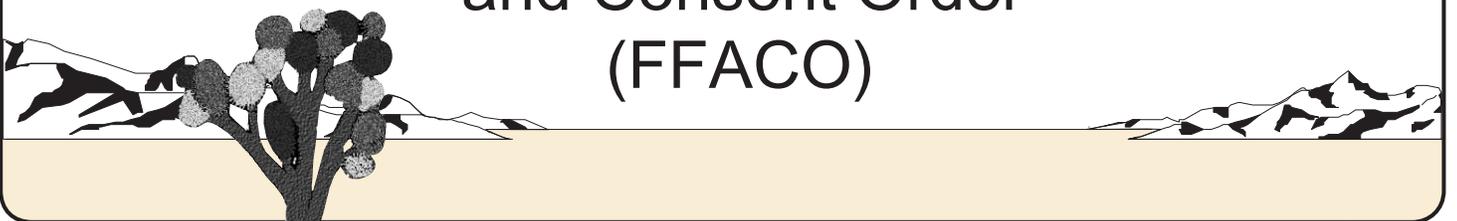
# **Appendix I**

## **Description of Facilities**

Revision No.: 3

January 1999

Federal Facility Agreement  
and Consent Order  
(FFACO)



## **1.0 Description of Facility**

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The Federal Facility Agreement and Consent Order (FFACO) applies to land controlled, managed, owned, or leased by the U.S. Department of Energy (DOE) (and/or) the U.S. Department of Defense (DoD) in the state of Nevada. Specifically, the Agreement covers the Nevada Test Site, parts of the Tonopah Test Range, the Central Nevada Test Area, the Project Shoal Area, and parts of the Nellis Air Force Range (Figure 1-1).

### **1.1 Nevada Test Site**

The Nevada Test Site (NTS) is a DOE installation occupying approximately 1,350 square miles (882,332 acres) in southeastern Nye County, Nevada. The site is federally-owned, access controlled, and withdrawn from settlement, sale, location or entry. The withdrawal also excludes public mining and mineral leasing.

The area recognized as the Nevada Test Site is composed of four separate land transfers from other federal agencies to the Atomic Energy Commission (AEC).

- Executive Order 9337, signed by President Roosevelt on April 24, 1943, resulted in the Bureau of Land Management (BLM) issuing Public Land Order 805 (February 12, 1952), to transfer approximately 437,020 acres of Air Force land to the Atomic Energy Commission for use as a weapons testing site.
- Public Land Order 3759, issued under Executive Order 10355 signed on May 26, 1952, withdrew approximately 21,108 acres of BLM managed land to the AEC in support of the NTS.
- Pursuant to Public Land Order 2568 (December 19, 1961), and under the authority of Executive Order 10355 on May 26, 1952, approximately 318,000 acres of the Nellis Air Force Range was transferred from the Air Force to the AEC for use in connection with the Nevada Test Site for test facilities, utilities, and safety distances.
- A Memorandum of Understanding with the Air Force, signed on November 1, 1963, granted the AEC the unconditional use and operational control of approximately 106,000 acres of Air Force land in the Pahute Mesa area.

For the purposes of the FFACO, the boundaries of the Nevada Test Site will be defined as recorded in the Holmes and Narver, Inc., survey of April 16, 1986, except for the exclusion of Public Land Order 1662 (Figure 1-2). Any activities undertaken by DOE or successor agencies pursuant to the terms of the Nuclear Waste Policy Act (NWPA), 42 U.S.C. Section 10101 et seq.,

as amended, or subsequent legislation of similar scope and purpose which may be enacted by Congress, are specially excluded from the Agreement and this Appendix.

The DoD is a tenant of the DOE on the NTS. The division of responsibilities between the two Parties is the subject of a Memorandum of Understanding between the DOE and the Defense Nuclear Agency. Cleanups required as a result of testing activities conducted by the DoD are joint responsibilities at some sites; the remainder are the sole responsibility of the DoD.

### **1.2 Tonopah Test Range**

Portions of the Tonopah Test Range, located in Nye County, and the activities thereon, have been managed by the AEC or the DOE for the U.S. Department of the Air Force since an initial Memorandum of Understanding was signed in 1956. Approximately 370,000 acres were designated to support research related to the weapons development program (Figure 1-3). DOE has responsibility for remediation efforts on the Tonopah Test Range for those sites resulting from past DOE activities. As described in a Memorandum of Understanding dated April 1, 1969, the boundaries are as follows:

An area approximately 24 by 26 miles starting from a point on the northern boundary of the Nellis Air Force Range at approximately 37°E 53' N - 116°E 26' W, thence 26 miles west to approximately 37°E 53' N - 116°E 55' W, thence south to approximately 37°E 33' N - 116°E 55' W, thence 26 miles east to approximately 37°E 33' N - 116°E 26' W, thence 24 miles north to point of beginning.

### **1.3 Central Nevada Test Area**

The Central Nevada Test Area consists of three noncontiguous unmanned sites in Hot Creek Valley, approximately 80 miles east of Tonopah (Figure 1-4). A large-diameter borehole specifically designed for nuclear testing was drilled at each site; one site was utilized. The unused boreholes are 120 inches in diameter and drilled to a depth of 5,500 feet with 56-inch diameter casing installed to 4,846 feet. There are also numerous small-diameter monitoring wells on the sites. The large-diameter wells and most of the small-diameter wells have been plugged and abandoned.

Pursuant to Executive Order 10355, May 26, 1952, Public Land Order 4338 was issued on December 6, 1967, to withdraw a parcel of approximately 640 acres in Nye County for the AEC to conduct underground atomic energy experiments. The parcel is located as follows:

Mount Diablo Meridian

T. 9 N., R. 51 E. (unsurveyed)

Parcel: SW $\frac{1}{4}$ , Sec. 14; SE $\frac{1}{4}$ , Sec. 15; NE $\frac{1}{4}$ , Sec. 22; and NW $\frac{1}{4}$ , Sec. 23.

Pursuant to Executive Order 10355, May 26, 1952, Public Land Order 4748 was issued on December 2, 1969, to withdraw approximately 1,920 acres in two parcels in Nye County for the Atomic Energy Commission to conduct underground atomic energy experiments. They were located as follows:

Mount Diablo Meridian

Parcel 1: T. 9 N., R. 51 E. (unsurveyed). Beginning at a point, said point being S. 67E34'33" W., 11,046,966 feet from the southeast corner of T. 9 N., R. 51 E., W. 5,280 feet; N. 7,920 feet; E. 5,280 feet; and S. 7,920 feet, to the point of beginning.

Parcel 2: T. 9., R. 51 E., (unsurveyed), Sec. 2 NW $\frac{1}{4}$ ; Sec. 3, N $\frac{1}{2}$ . T. 10 N., R. 51 E., Sec. 34, S $\frac{1}{2}$ ; Sec. 35, SW $\frac{1}{4}$ .

#### **1.4 Project Shoal Area**

The Project Shoal Area is located approximately 30 miles southeast of Fallon in the Sand Springs Mountains (Figure 1-5). Memorandum of Understanding AT (26-1) 255 (January 1, 1966), resulted in the site being under the joint use and control of the U.S. Navy and the Department of Energy.

Pursuant to Executive Order 10355, May 26, 1952, Public Land Order 2771 was issued on September 6, 1962, to withdraw approximately 2,560 acres in Churchill County for use by the Atomic Energy Commission for experimental project purposes and allied safety areas (Figure I-5). The site was located as follows:

T. 16 N., R. 32 E., Secs. 33 and 34. T. 15 N., R. 32 E. (unsurveyed), Secs. 3 and 4.

Public Land Order 2834 corrected Public Land Order 2771 to cover Secs. 33 and 34.

#### **1.5 Nellis Air Force Range**

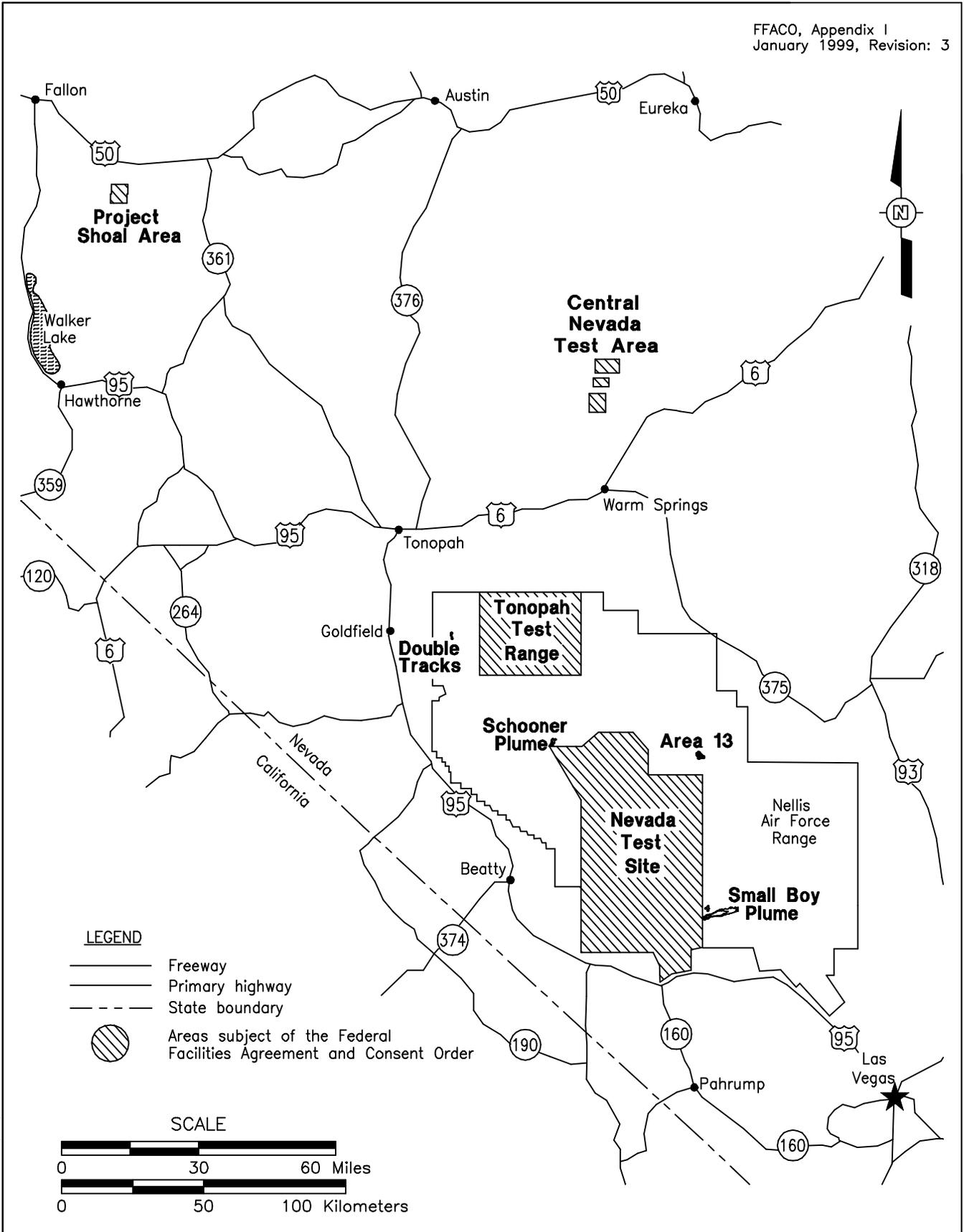
Portions of the Nellis Air Force Range, located in Nye, Lincoln, and Clark Counties, were used by the DOE or the AEC for nuclear testing or related activities. Only those portions of the Range contaminated during these activities are subject to the terms of the Federal Facility Agreement and Consent Order. To date, four areas on the Nellis Air Force Range have been identified as the responsibility of the DOE. All ground zero coordinates are Nevada State Plane, Central Zone.

Area 13 - A safety experiment (Project 57 No. 1) with ground zero coordinates of N 932646, E 688515 was detonated on April 24, 1957. Preliminary surveys define the impacted area as displayed in [Figure 1-6](#).

Small Boy - A nuclear detonation with ground zero coordinates of N 747908, E 717118 was detonated on July 14, 1963. Preliminary surveys define the impacted area as displayed in [Figure 1-7](#).

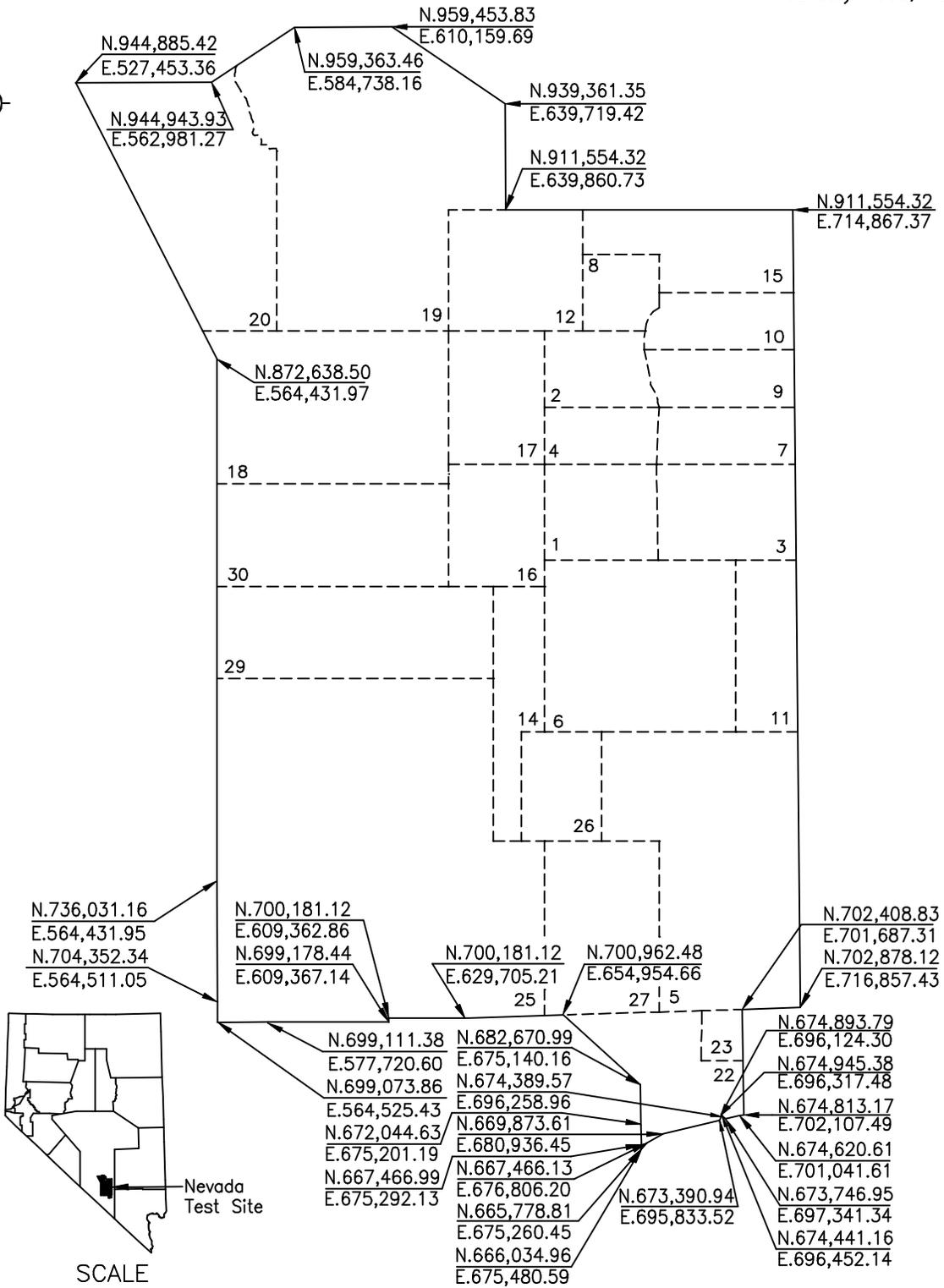
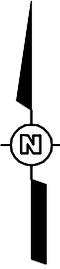
Schooner - A nuclear detonation with ground zero coordinates of N 944011, E 529301 was detonated on December 8, 1968. Preliminary surveys define the impacted areas as displayed in [Figure 1-8](#).

Double Tracks - A storage-transportation test shot with ground zero coordinates of N 1076306, E 407268 was detonated on May 15, 1963. Preliminary surveys define the impacted area as displayed in [Figure 1-9](#).



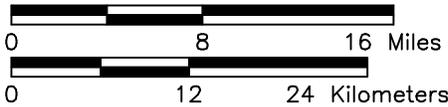
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**Figure I-1**  
**Areas Subject to the Federal Facility**  
**Agreement and Consent Order**

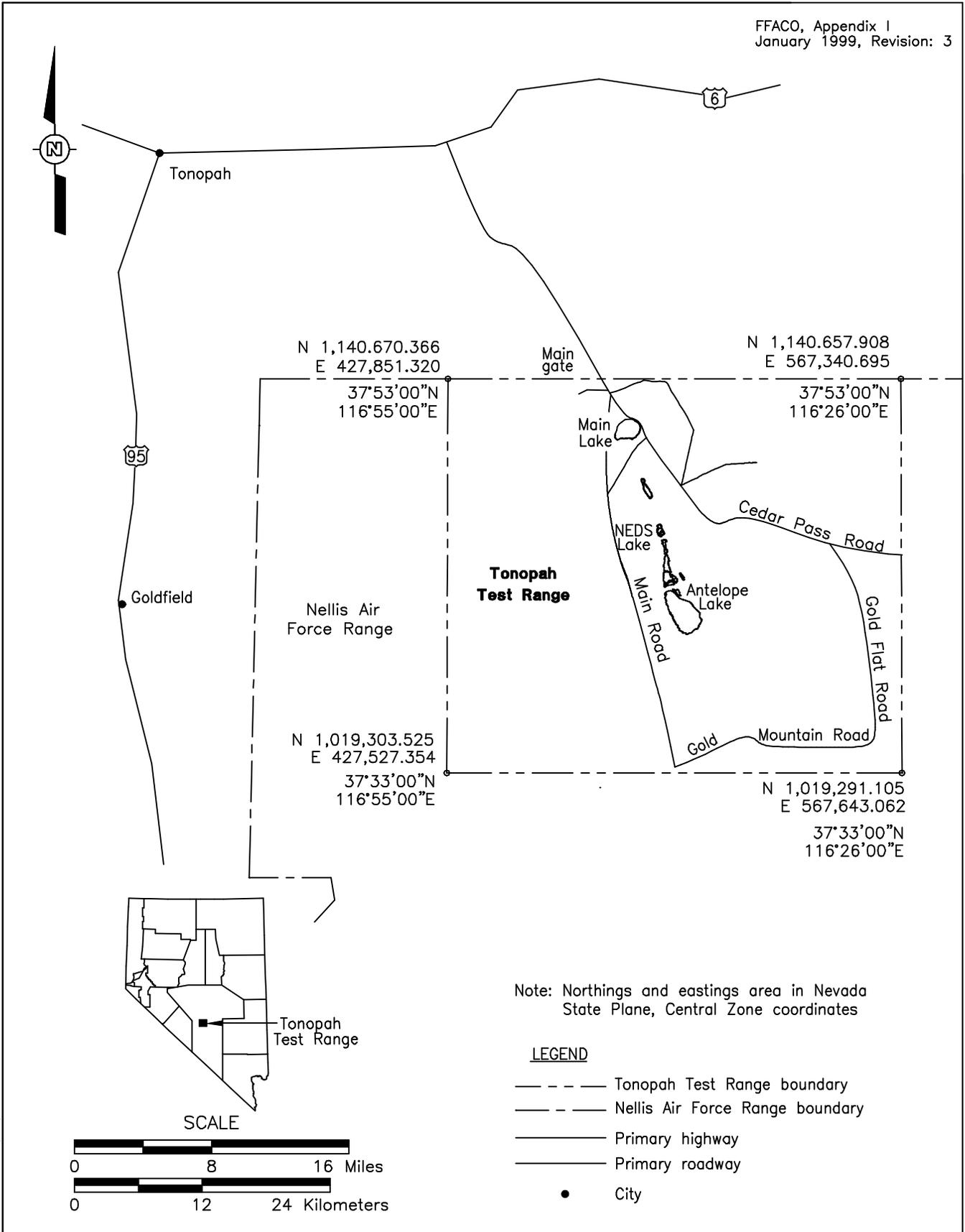


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SCALE

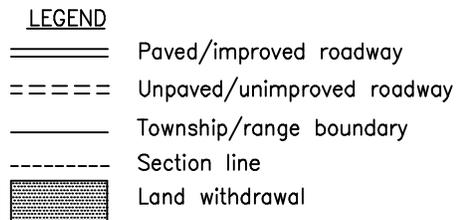
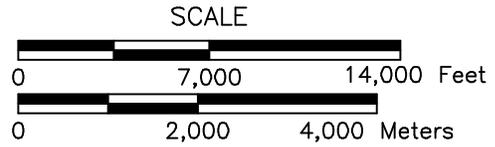
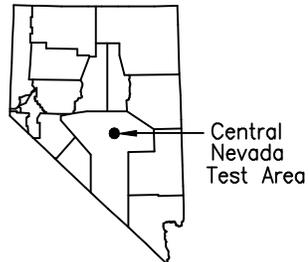
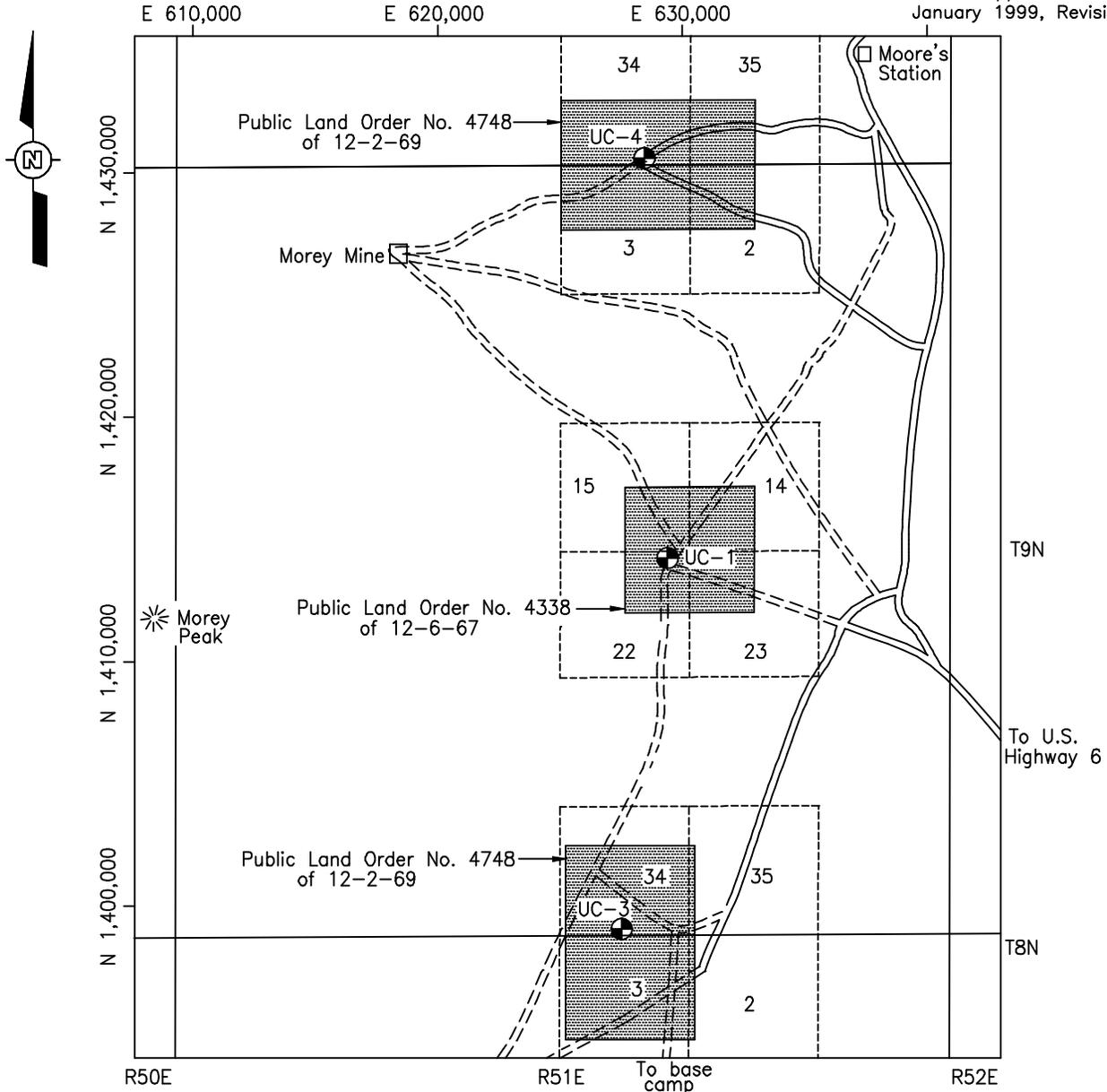


**Figure I-2**  
**Nevada Test Site Boundary Coordinates**



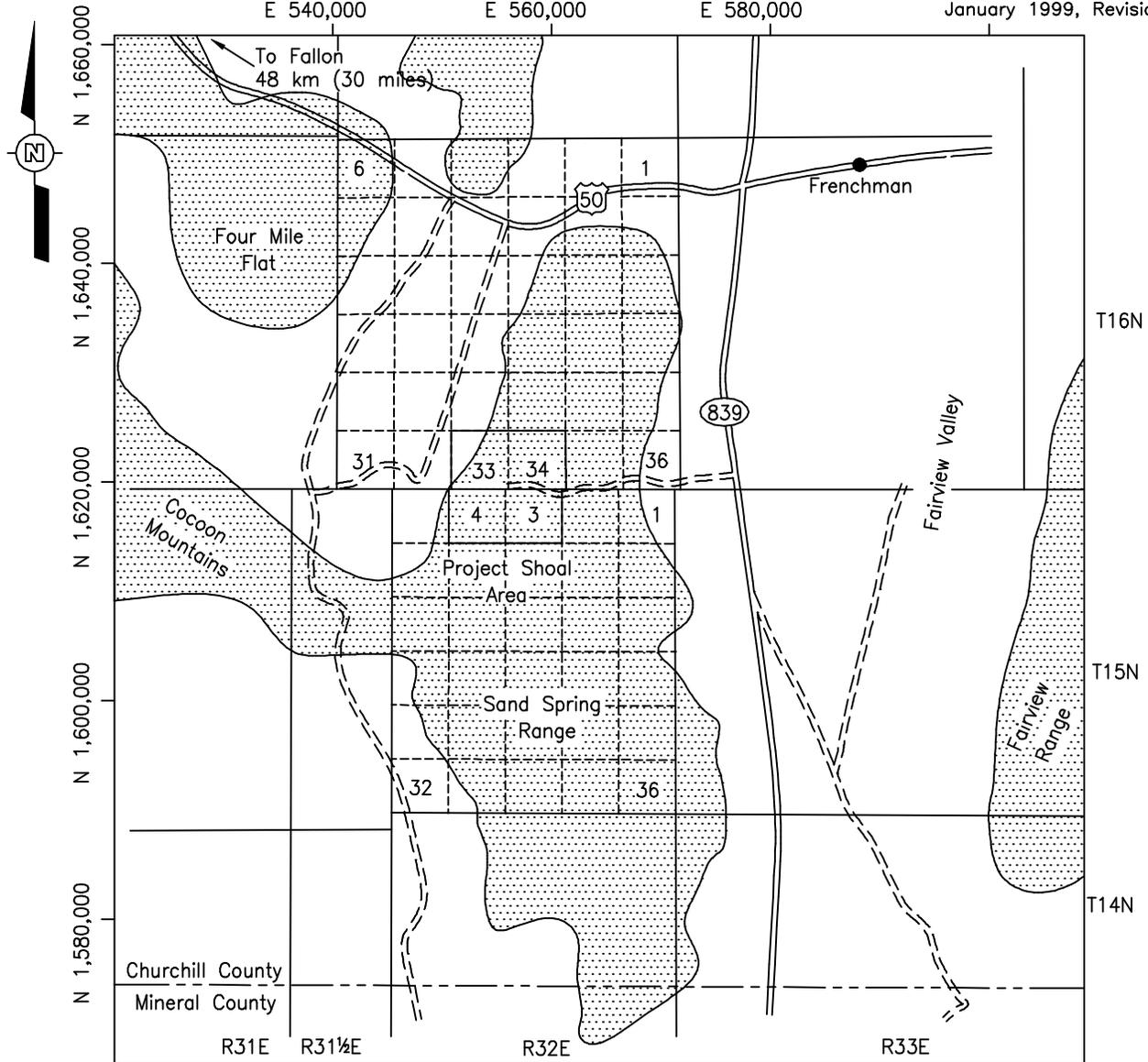
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**Figure I-3**  
**Location Map of Tonopah Test Range**

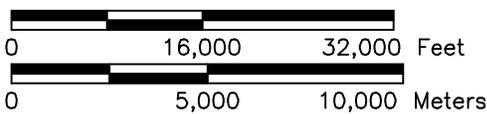


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**Figure I-4**  
**Location of Central Nevada Test Area**



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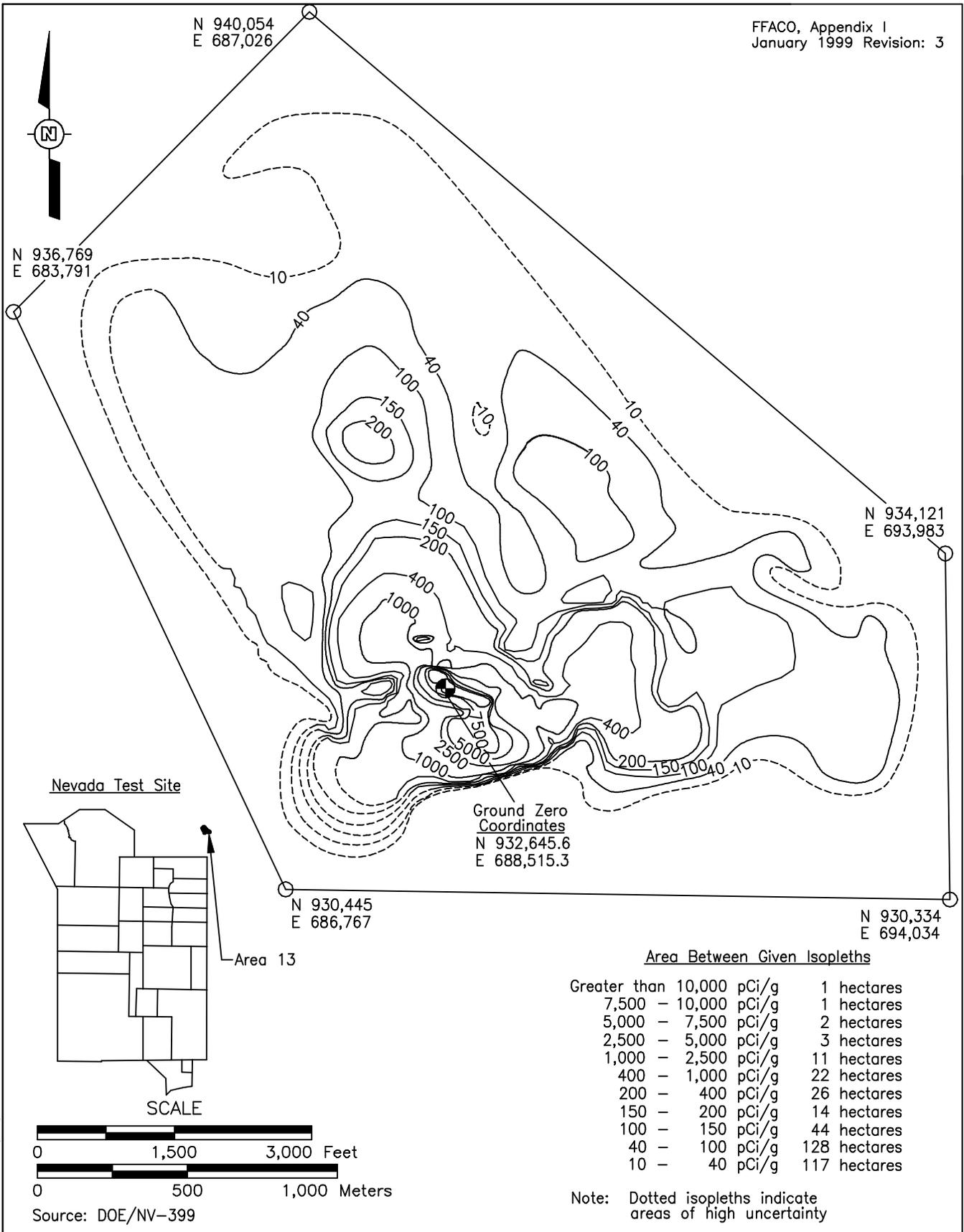


**LEGEND**

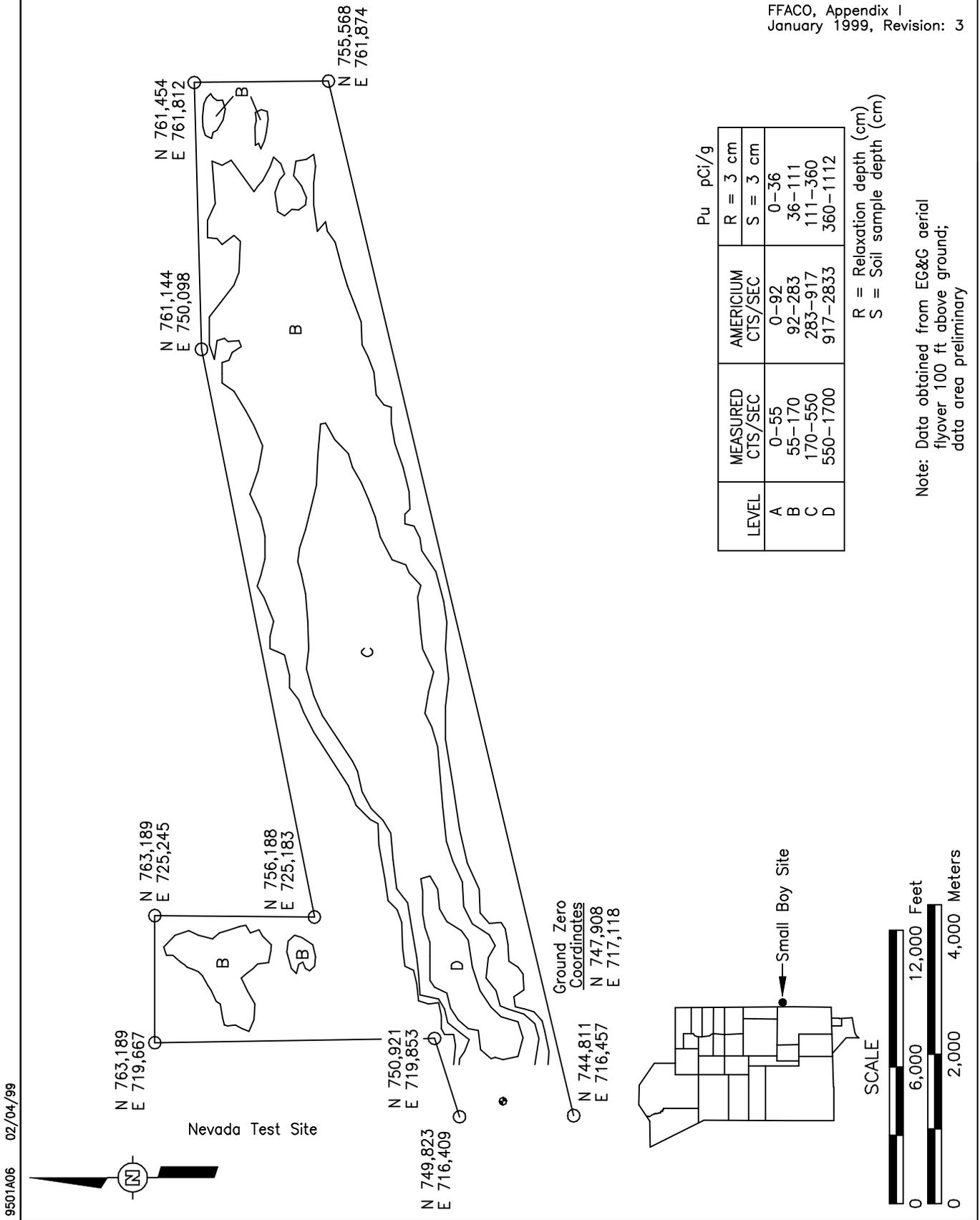
- Improved roadway
- == Unimproved roadway
- Township/range boundary
- - - County line
- - - Section line
- Land withdrawal boundary
- Town

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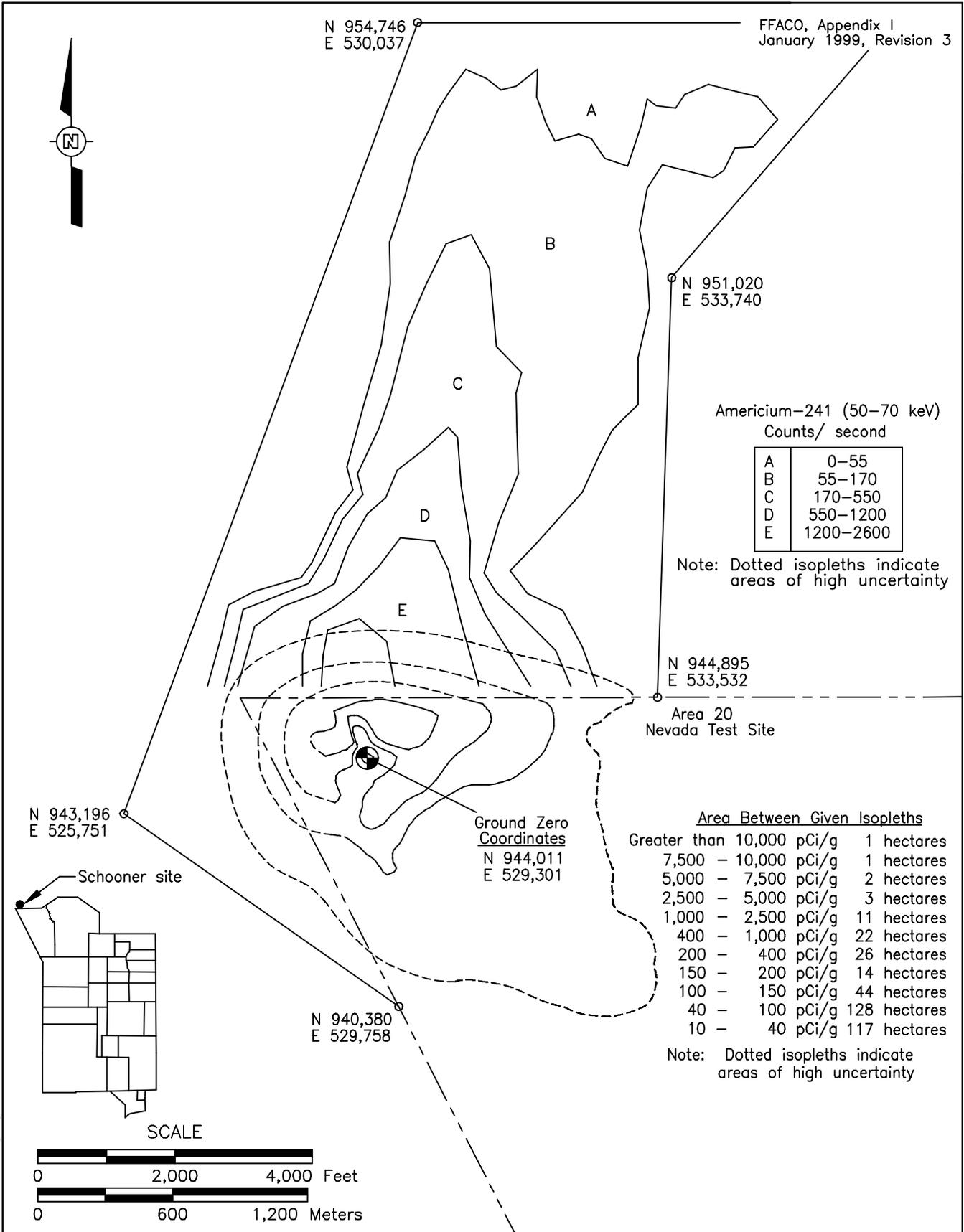
**Figure I-5  
Location of Project Shoal Area**



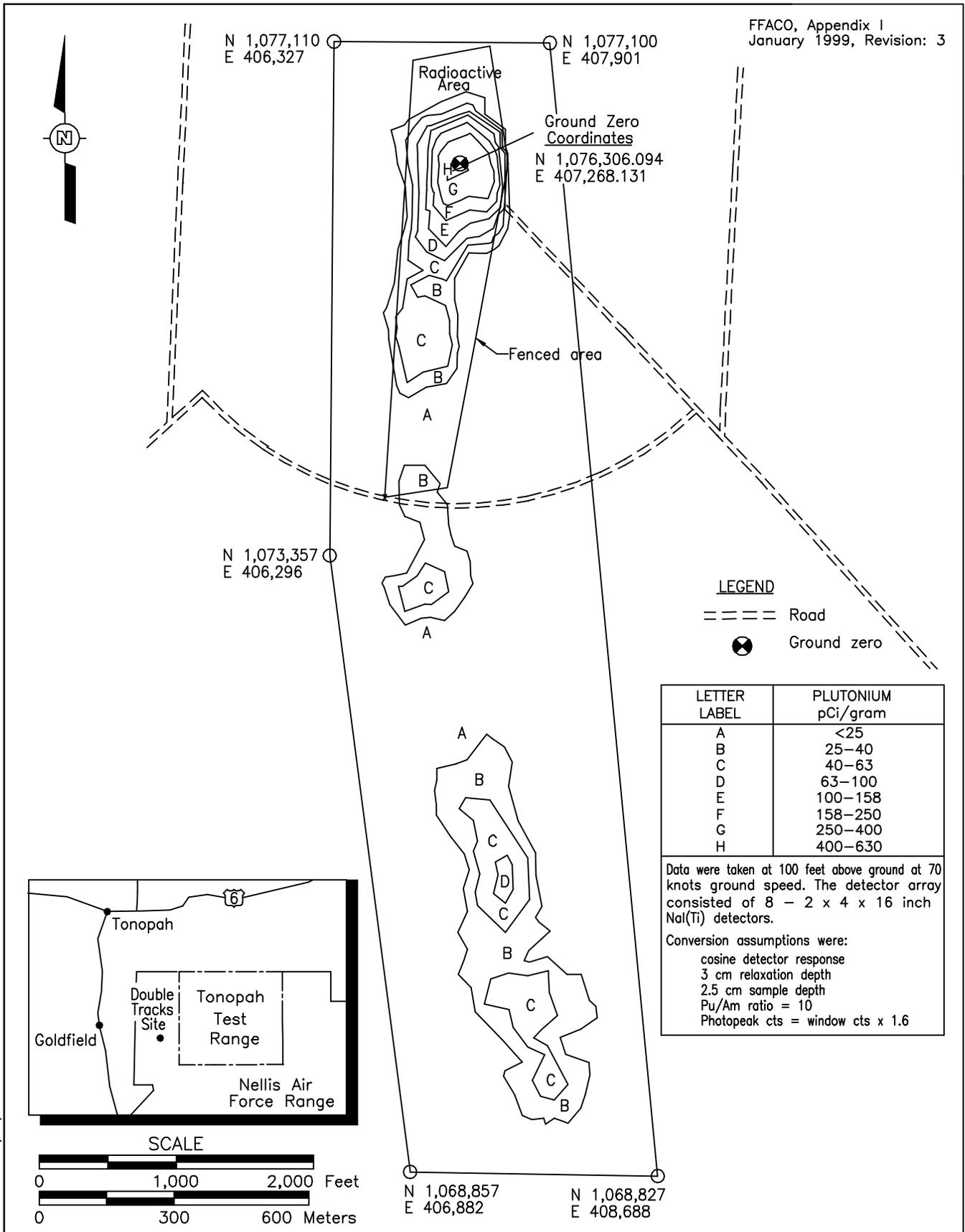
**Figure I-6**  
**Area Subject to the Federal Facility Agreement**  
**and Consent Order in the Vicinity of the Area 13**



**Figure I-7**  
**Area Subject to the Federal Facility Agreement**  
**and Consent Order in the Vicinity of the Small Boy**



**Figure I-8**  
**Area Subject to the Federal Facility Agreement**  
**and Consent Order in the Vicinity of the Schooner**



9501A08 02/04/99

**Figure I-9**  
**Area Subject to the Federal Facility Agreement**  
**and Consent Order in the Vicinity of the Double-Tracks**

# Appendix II

## Corrective Action Sites/Units

Revision No.: 22

July 2007



Federal Facility Agreement  
and Consent Order  
(FFACO)



**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 384 Other DTRA Sites**  
**Owner: DTRA**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-09-03	Mud Pit	Mud Pit	U-12e.14 PS #1	Rainier Mesa

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 539 Waste Sites**  
**Owner: NNSA / Industrial Sites - DP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-99-02	Material Piles (2)	Housekeeping Waste	U-9av	Oak Spring
09-99-04	Wax, Paraffin	Housekeeping Waste	U-9av	Oak Spring
09-99-05	Asbestos, Vermiculite	Housekeeping Waste	U-9av	Oak Spring
12-99-04	Epoxy Tar Spill	Housekeeping Waste	U-12g.03 CH 2	Rainier Mesa
12-99-08	Cement Spill	Housekeeping Waste	Area 12 Fire Station	Rainier Mesa
19-99-06	Waste Spill	Other Spill Site	U-19j	Dead Horse Flat

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 544 Cellars, Mud Pits, and Oil Spills**

**Owner: NNSA / Industrial Sites - DP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-37-02	Cellar	Sump (Cellar)	U-2am	Oak Spring
02-37-08	Cellar & Mud Pit	Sump (Cellar)	U-2cn	Tippipah Spring
02-37-09	Cellar & Mud Pit	Sump (Cellar)	U-2dc-2	Yucca Flat
07-09-01	Mud Pit	Mud Pit	U-7bi	Paiute Ridge
09-09-46	U-9itsx20 PS #1A Mud Pit	Mud Pit		
10-09-01	Mud Pit	Mud Pit	U-10cb	Oak Spring
10-09-03	Mud Pit	Mud Pit	10-01 Road	Oak Spring
19-09-01	Mud Pits (2)	Mud Pit	U-19ab	Dead Horse Flat
19-09-03	Mud Pit	Mud Pit	U-19ar	Dead Horse Flat
19-09-04	Mud Pit	Mud Pit	U-19ad	Dead Horse Flat
19-25-01	Oil Spill	Oil/Fuel Spills	U-19ab	Ammonia Tanks
20-09-01	Mud Pits (2)	Mud Pit	RSM 20 J 35	Trail Ridge
20-09-02	Mud Pit	Mud Pit	RSM 20 J 36	Trail Ridge
20-09-03	Mud Pit	Mud Pit	U-20p	Trail Ridge
20-09-04	Mud Pits (2)	Mud Pit	U-20p	Trail Ridge
20-09-06	Mud Pit	Mud Pit	U-20z	Silent Butte
20-09-07	Mud Pit	Mud Pit	U-20aw	Silent Butte
20-09-10	Mud Pit	Mud Pit	U-20bg	Scrugham Peak
20-25-04	Oil Spills	Oil/Fuel Spills	U-20aw	Silent Butte
20-25-05	Oil Spills	Oil/Fuel Spills	U-20be	Scrugham Peak

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 548 Areas 9, 10, 18, 19, and 20 Housekeeping Sites**  
**Owner: NNSA / Industrial Sites - DP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-99-07	Tar Spill	Housekeeping Waste	U-9 ITS V-26	Oak Spring
10-22-02	Drums	Housekeeping Waste	U-10i	Oak Spring
10-22-05	Gas Block	Housekeeping Waste	U-10u	Oak Spring
10-22-07	Gas Block	Housekeeping Waste	U-10k	Oak Spring
10-22-34	Drum	Housekeeping Waste	U-10w	Oak Spring
10-22-38	Drum; Cable	Housekeeping Waste	Teapot Crater	Oak Spring
18-14-01	Transformers (3)	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-05	Drum	Housekeeping Waste	U-18a	Buckboard Mesa
18-22-06	Drums (20)	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-22-08	Drum	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
19-22-01	Drums	Housekeeping Waste	U-19ab	Dead Horse Flat
19-22-11	Gas Block (2)	Housekeeping Waste	U-19n	Dead Horse Flat
19-24-01	Batteries (4)	Housekeeping Waste	U-19ay	Dead Horse Flat
19-44-01	Fuel Spill	Oil/Fuel Spills	U-19g	Dead Horse Flat
20-22-02	Drum; Buckets (2)	Housekeeping Waste	U-20p	Trail Ridge
20-22-04	Drums (4); Buckets	Housekeeping Waste	U-20p	Trail Ridge
20-22-05	Drum	Housekeeping Waste	U-20p	Trail Ridge
20-22-07	Drums (2)	Housekeeping Waste	U-20k	Trail Ridge
20-22-09	Drums (3)	Housekeeping Waste	U-20f	Silent Butte
20-22-13	Drums (3)	Housekeeping Waste	U-20e	Silent Butte
20-22-14	Drums (2)	Housekeeping Waste	RSM J 24	Trail Ridge
20-22-16	Drums (2)	Housekeeping Waste	U-20i	Silent Butte
20-22-23	Drum	Housekeeping Waste	U-20z	Silent Butte
20-24-09	Battery	Housekeeping Waste	U-20aw	Silent Butte
20-99-04	Gas Cylinder	Housekeeping Waste	U-20z Pad	Silent Butte

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 114 Area 25 EMAD Facility**

**Owner: NNSA / Industrial Sites - ERP**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-41-03	EMAD Facility	D&D Facility	Building 3900	

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 546 Injection Wells, Mud Pits, Cellar, and Ponds**

**Owner: NNSA / Industrial Sites - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-20-01	Injection Well	Injection Well	U-9u	Oak Spring

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 111 Area 5 WMD Retired Mixed Waste Pits**

**Owner: NNSA / Industrial Sites - WMP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-21-01	Mixed Waste Pits	Waste Disposal Trench	RWMS	Frenchman Lake

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 104 Areas 1, 3, 4, 7 South Yucca Flat Atmospheric Sites**  
**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-23-02	Atmospheric Test Site - High Alt	Rad Contamination Area	High Altitude (HA)	Yucca Flat
01-23-03	Atmospheric Test Site T-1	Rad Contamination Area	Apple-2, Easy, Galileo, Simon	Yucca Flat
03-23-09	T-3 Contamination Area	Rad Contamination Area	Annie, Franklin, George, Moth	Yucca Flat
03-23-10	T-3A Contamination Area	Rad Contamination Area	Harry, Hornet	Yucca Flat
03-23-11	T-3B Contamination Area	Rad Contamination Area	Fizeau	Yucca Flat
03-23-12	T-3S Contamination Area	Rad Contamination Area	Rio Arriba	Yucca Flat
03-23-13	T-3T Contamination Area	Rad Contamination Area	Catron	Yucca Flat
03-23-14	T-3V Contamination Area	Rad Contamination Area	Humboldt	Yucca Flat
03-23-15	S-3G Contamination Area	Rad Contamination Area	Coulomb-B	Yucca Flat
03-23-16	S-3H Contamination Area	Rad Contamination Area	Coulomb-A	Yucca Flat
03-23-17	S-3I Contamination Area	Rad Contamination Area	Coulomb-C	Yucca Flat
03-23-19	T-3U Contamination Area	Rad Contamination Area	Chavez	Yucca Flat
03-23-20	Otero Contamination Area	Rad Contamination Area	Operation Hardtack II	Yucca Flat
03-23-21	Pike Contamination Area	Rad Contamination Area	Pike	Yucca Flat
03-23-22	Platypus Contamination Area	Rad Contamination Area	Platypus	Yucca Flat
03-23-23	San Juan Contamination Area	Rad Contamination Area	San Juan	Yucca Flat
03-23-24	Seaweed B Contamination Area	Rad Contamination Area	Seaweed B	Yucca Flat
03-23-25	Seaweed E Contamination Area	Rad Contamination Area	Seaweed E	Yucca Flat
03-23-26	Shrew/Wolverine Contamination Area	Rad Contamination Area	Shrew	Yucca Flat
04-23-01	Atmospheric Test Site T-4	Rad Contamination Area	Apple-1, Fox, Kepler, Nancy	Yucca Flat
04-23-02	Atmospheric Test Site T4-a	Rad Contamination Area	Ray	Yucca Flat
07-23-03	Atmospheric Test Site T-7C	Rad Contamination Area	Boltzmann, Quay	Yucca Flat
07-23-04	Atmospheric Test Site T7-1	Rad Contamination Area	Easy	Yucca Flat
07-23-05	Atmospheric Test Site	Rad Contamination Area	Bee, Zucchini	Yucca Flat
07-23-06	Atmospheric Test Site T7-5a	Rad Contamination Area	Able (Operation Buster)	Yucca Flat

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 104 Areas 1, 3, 4, 7 South Yucca Flat Atmospheric Sites**  
**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
07-23-07	Atmospheric Test Site - Dog (T-S)	Rad Contamination Area	Dog (Operation Tumbler-Snapper)	Yucca Flat
07-23-08	Atmospheric Test Site - Baker (T-S)	Rad Contamination Area	Baker (Operation Tumbler-Snapper)	Yucca Flat
07-23-09	Atmospheric Test Site - Charlie (T-S)	Rad Contamination Area	Charlie (Operation Tumbler-Snapper)	Yucca Flat
07-23-10	Atmospheric Test Site - Dixie	Rad Contamination Area	Dixie	Yucca Flat
07-23-11	Atmospheric Test Site - Dixie	Rad Contamination Area	Dog (Operation Buster)	Yucca Flat
07-23-12	Atmospheric Test Site - Charlie (Bus)	Rad Contamination Area	Charlie (Operation Buster)	Yucca Flat
07-23-13	Atmospheric Test Site - Baker (Buster)	Rad Contamination Area	Baker (Operation Buster)	Yucca Flat
07-23-14	Atmospheric Test Site - Ruth	Rad Contamination Area	Ruth	Yucca Flat
07-23-15	Atmospheric Test Site T7-4	Rad Contamination Area	Wasp, Wasp Prime	Yucca Flat
07-23-16	Atmospheric Test Site B7-b	Rad Contamination Area	DeBaca, DonaAna, Doppler, Eddy and 9 more	Yucca Flat
07-23-17	Atmospheric Test Site - Climax	Rad Contamination Area	Climax	Yucca Flat
07-39-01	Bunker 7-800	Pu Contaminated Soils		Yucca Flat

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 105 Areas 2, 8, 9, 10 North Yucca Flat Atmospheric Sites**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-23-02	Contaminated Areas (2)	Rad Contamination Area	Calabash	Oak Spring
02-23-03	Contaminated Berm	Rad Contamination Area	Flask	Yucca Flat
02-23-04	Atmospheric Test Site - Whitney	Rad Contamination Area	Whitney	Oak Spring
02-23-05	Atmospheric Test Site T-2A	Rad Contamination Area	Shasta	Oak Spring
02-23-06	Atmospheric Test Site T-2B	Rad Contamination Area	Diablo	Oak Spring
02-23-07	Atmospheric Test Site - Tesla	Rad Contamination Area	Tesla	Rainier Mesa
02-23-08	Atmospheric Test Site T-2	Rad Contamination Area	Badger, How	Oak Spring
02-23-09	Atmospheric Test Site - Turk	Rad Contamination Area	Turk	Oak Spring
08-23-02	U-8d Contamination Area	Rad Contamination Area	Baneberry	Oak Spring
08-23-03	Atmospheric Test Site T-8B	Rad Contamination Area	Ceres	Oak Spring
08-23-04	Atmospheric Test Site T-2C	Rad Contamination Area	Smoky	Oak Spring
08-23-06	Atmospheric Test Site T-8A	Rad Contamination Area	Oberon	Oak Spring
08-23-07	Atmospheric Test Site T-8C	Rad Contamination Area	Titania	Oak Spring
08-23-08	Contamination Area	Rad Contamination Area	Area 8 Trailer Park	Oak Spring
09-23-03	Atmospheric Test Site S-9F	Rad Contamination Area	Juno	Yucca Flat
09-23-04	Atmospheric Test Site T9-C	Rad Contamination Area	Post	Yucca Flat
09-23-06	Mound of Contaminated Soil	Rad Contamination Area	U-9 ITS Y-30	Oak Spring
09-23-10	Atmospheric Test Site T-9	Rad Contamination Area	Sugar	Oak Spring
09-23-11	Atmospheric Test Site S-9G	Rad Contamination Area	Ganymede	Oak Spring
09-23-12	Atmospheric Test Site S-9E	Rad Contamination Area	Vesta	Yucca Flat
09-23-13	Atmospheric Test Site T-9D	Rad Contamination Area	Mazama	Oak Spring
09-23-14	Atmospheric Test Site - Rushmore	Rad Contamination Area	Rushmore	Oak Spring
09-23-15	Eagle Contamination Area	Rad Contamination Area	Eagle	Oak Spring
09-45-01	Windrows Crater	Craters	Windrows Crater	Yucca Flat
09-99-01	Atmospheric Test Site B-9A	Rad Contamination Area	Charleston, Hood, Lassen, Morgan,	Oak Spring

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 105 Areas 2, 8, 9, 10 North Yucca Flat Atmospheric Sites**  
**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-23-04	Atmospheric Test Site M-10	Rad Contamination Area	Owens, Wheeler and 2 more John	Oak Spring

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 106 Areas 5, 11 Frenchman Flat Atmospheric Sites**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-23-04	Atmospheric Tests (6) - BFa Site	Rad Contamination Area	Encore, Grable, Met, Priscilla, Sanford and 1 more	Frenchman Lake
05-23-05	Atmospheric Test Site - Able	Rad Contamination Area	Able (Operation Tumbler-Snapper)	Frenchman Lake
05-23-06	Atmospheric Test Site	Rad Contamination Area	Able, Baker, Baker-2, Easy, Fox	Frenchman Lake
05-45-01	Atmospheric Test Site - Hamilton	Rad Contamination Area	Hamilton	Frenchman Lake
05-45-04	306 GZ Rad Contaminated Area	Craters	Frenchman Lake	Frenchman Lake
05-45-05	307 GZ Rad Contaminated Area	Craters	Frenchman Lake	Frenchman Lake
11-23-05	Pin Stripe Contamination Area	Rad Contamination Area	Pin Stripe	Plutonium Valley

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 107 Area 18 Buckboard Mesa Atmospheric Sites**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
18-23-02	U-18d Crater (Sulky)	Craters	U-18d Sulky	Buckboard Mesa
18-45-02	Little Feller I Surface Crater	Craters	Airport Road	Buckboard Mesa
18-45-03	Little Feller II Surface Crater	Craters	Airport Road	Buckboard Mesa

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 365 Area 5 GMX Unit Safety Shots**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-23-02	GMX Alpha Contaminated Area	Rad Contamination Area	Able	Frenchman Lake

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 366 Area 11 Plutonium Valley Unit Safety Shots**  
**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
11-08-01	Contaminated Waste Dump #1	Rad Contamination Area	Project 56	Plutonium Valley
11-08-02	Contaminated Waste Dump #2	Rad Contamination Area	Project 56	Plutonium Valley
11-23-01	Radioactively Contaminated Area A	Rad Contamination Area	Project 56 No. 1	Plutonium Valley
11-23-02	Radioactively Contaminated Area B	Rad Contamination Area	Project 56 No. 2	Plutonium Valley
11-23-03	Radioactively Contaminated Area C	Rad Contamination Area	Project 56 No. 3	Plutonium Valley
11-23-04	Radioactively Contaminated Area D	Rad Contamination Area	Project 56	Plutonium Valley

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 367 Area 10 Sedan, Ess and Uncle Unit Craters**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-45-01	U-10h Crater (Sedan)	Craters	Sedan Crater	Oak Spring
10-45-02	Ess Crater Site	Craters	T-10a	Oak Spring
10-45-03	Uncle Crater Site	Craters	T-10	Oak Spring

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 370 Area 18 Johnnie Boy Unit Crater**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
18-45-01	U-18j-2 Crater (Johnnie Boy)	Craters	U-18j-2 (Johnnie Boy)	Buckboard Mesa

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 371 Area 18 Danny Boy Unit Crater**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
18-23-01	Danny Boy Contamination Area	Rad Contamination Area	U-18a	Buckboard Mesa

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 372 Area 20 Cabriolet/Palanquin Unit Craters**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-23-01	U-20k Contamination Area	Rad Contamination Area	Palanquin	Trail Ridge
20-45-01	U-20L Crater (Cabriolet)	Craters	U-20L Crater	Trail Ridge

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 374 Area 20 Schooner Unit Crater**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-45-03	U-20u Crater (Schooner)	Craters	N Pahute Mesa Road	Trail Ridge

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 375 Area 30 Buggy Unit Craters**

**Owner: NNSA / Soils - ERP**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
30-45-01	U-30a, b, c, d, e Craters	Craters	U-30a, b, c, d, e	Buckboard Mesa

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 411 Double Tracks Plutonium Dispersion (Nellis)**

**Owner: NNSA / Soils - ERP**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
NAFR-23-01	Pu Contaminated Soil	Rad Contamination Area	Double Tracks	Tonopah Test Range

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 412 Clean Slate I Plutonium Dispersion (TTR)**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
TA-23-01CS	Pu Contaminated Soil	Rad Contamination Area	Clean Slates I	Tonopah Test Range

**FFACO**  
**Appendix II - Corrective Action Sites/Units**

**CAU Number: 414 Clean Slate III Plutonium Dispersion (TTR)**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
TA-23-03CS	Pu Contaminated Soil	Rad Contamination Area	Clean Slates III	Tonopah Test Range

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 415 Project 57 No. 1 Plutonium Dispersion (NAFR)**

**Owner: NNSA / Soils - ERP**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
NAFR-23-02	Pu Contaminated Soil	Rad Contamination Area	Project 57 No. 1	Tonopah Test Range

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 465 Hydronuclear**

**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
00-23-01	Hydronuclear Experiment	Rad Contamination Area	Not Available	
00-23-02	Hydronuclear Experiment	Rad Contamination Area	Not Available	
00-23-03	Hydronuclear Experiment	Rad Contamination Area	Not Available	
06-23-02	U-6a/Russet Testing Area	Rad Contamination Area	Russet	Yucca Lake
06-99-01	Hydronuclear	Rad Contamination Area	Trailer 13	Yucca Lake

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**Appendix II - Corrective Action Sites/Units**

**CAU Number: 541 Small Boy**  
**Owner: NNSA / Soils - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-45-03	Atmospheric Test Site - Small Boy	Rad Contamination Area	Small Boy	Frenchman Lake

# Appendix III

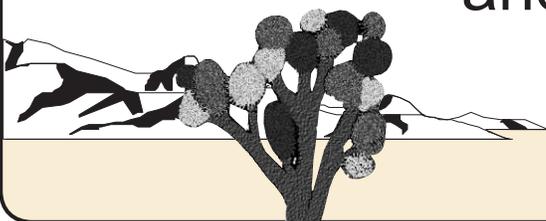
## Corrective Action Investigations/ Corrective Actions

Revision No.: 22



July 2007

Federal Facility Agreement  
and Consent Order  
(FFACO)



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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 443 Central Nevada Test Area - Subsurface**

**Owner: DOE / Offsites - OLM**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	3/31/1998	2/19/1998	6/23/1998	4/9/1999	
Submittal of Contaminant Boundary	6/28/2002	6/10/2002	10/18/2002	N/A	NDEP approval not required
CAP to State	11/8/2004	11/5/2004	12/9/2004	12/9/2004	CADD/CAP
CADD/CAP to State	11/8/2004	11/5/2004	12/9/2004	12/9/2004	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
58-30-01	Emplacement Well UC-3	Drillhole	UC-3	Central Nevada Test Area
58-30-02	Emplacement Well UC-4	Drillhole	UC-4	Central Nevada Test Area
58-57-001	UC-1 Cavity	Underground Test/Detonation Cavity	NE of Tonopah, NV	Central Nevada Test Area

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 447 Project Shoal Area - Subsurface**

**Owner: DOE / Offsites - OLM**

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Comments
CADD/CAP To State	N/A	N/A	N/A	N/A	
CAIP to State	11/30/1998	11/23/1998	12/24/1998	12/24/1998	

CAS Number	CAS Description	Functional Category	General Location	Map Name
57-49-01	Emplacement Shaft	Shaft	W of CAS 57-06-01	Project Shoal Area
57-57-001	Cavity	Underground Test/Detonation Cavity	SE of Fallon, NV	Project Shoal Area

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 478 Area 12 T-Tunnel Ponds**

**Owner: DTRA**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CADD/CR to State	N/A	5/29/2007	N/A	N/A	
CAIP to State	9/30/2003	2/27/2003	3/28/2003	3/28/2003	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-23-01	Ponds (5), RAD Area	Tunnel Pond	T-Tunnel	Rainier Mesa

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 481 Area 12 T-Tunnel Conditional Release Storage Yard**

**Owner: DTRA**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Closure Report to State	12/31/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-42-05	Housekeeping Waste	Housekeeping Waste	U-12t	Rainier Mesa

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 482 Area 15 U15a/e Muckpiles and Ponds**

**Owner: DTRA**

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Comments
CADD/CR to State	N/A	6/6/2007	N/A	N/A	
CAIP to State	9/30/2002	7/1/2002	7/30/2002	7/30/2002	
CAP to State	12/31/2004	12/29/2004	1/10/2005	1/10/2005	

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
15-06-01	U15e Muckpile	Muckpile	U-15a/e Muckpile	Oak Spring
15-06-02	U15a Muckpile	Muckpile	U-15a/e Muckpile	Oak Spring
15-38-01	Area 15 U15a/e Ponds	Tunnel Pond	U-15a/e Muckpile	Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 504 16a-Tunnel Muckpile**

**Owner: DTRA**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	3/30/2001	3/19/2001	4/6/2001	4/6/2001	
CADD to State	9/30/2002	9/25/2002	11/13/2002	11/13/2002	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
16-06-01	Muckpile	Muckpile	16 Tunnel	Tippipah Spring
16-23-01	Contaminated Burial Pit	Rad Contamination Area	16 Tunnel Portal	Tippipah Spring
16-23-02	Contaminated Area	Rad Contamination Area	DOUBLE PLAY	Tippipah Spring
16-99-01	Concrete Construction Waste	Construction Waste Landfill	16 Tunnel Portal	Tippipah Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 536 Area 3 Release Site**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	7/21/2003	6/26/2003	7/1/2003	7/1/2003	
CADD to State	12/31/2004	11/22/2004	12/20/2004	1/10/2005	
CAP to State	9/30/2005	8/25/2005	8/31/2005	8/31/2005	
Closure Report to State	9/30/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-44-02	Steam Jenny Discharge	Other Spill Site	Angle Road (east side)	Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 550 Drums, Batteries, and Lead Materials**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	4/30/2008	N/A	N/A	N/A	
CADD to State	3/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
08-01-01	Storage Tank	Aboveground Storage Tank	T-2c	Oak Spring
08-22-05	Drum	Housekeeping Waste	T-8c	Oak Spring
08-22-07	Drum	Housekeeping Waste	T-8c	Oak Spring
08-22-08	Drums (3)	Housekeeping Waste	T-8B	Oak Spring
08-22-09	Drum	Housekeeping Waste	T-8b	Oak Spring
08-24-03	Battery	Housekeeping Waste	T-8C	Oak Spring
08-24-04	Battery	Housekeeping Waste	T-8C	Oak Spring
08-24-07	Batteries (3)	Housekeeping Waste	T-2C	Oak Spring
08-24-08	Batteries (3)	Housekeeping Waste	T-8A	Oak Spring
08-26-01	Lead Bricks (200)	Housekeeping Waste	T-2c	Oak Spring
10-22-17	Buckets (3)	Housekeeping Waste	U-10b	Oak Spring
10-22-18	Gas Block/Drum	Housekeeping Waste	U-10b	Oak Spring
10-22-19	Drum; Stains	Housekeeping Waste	U-10n	Oak Spring
10-22-20	Drum	Housekeeping Waste	U-10n	Oak Spring
10-24-10	Battery	Housekeeping Waste	U-10n	Oak Spring

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 556 Dry Wells and Surface Release Points**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP	3/31/2007	2/15/2007	N/A	N/A	
CADD to State	9/30/2008	N/A	N/A	N/A	
CAP to State	8/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-20-04	National Cementers Dry Well	Injection Well	Well 3 Yard	
06-99-09	Birdwell Test Hole	Other	Well 3 Yard Birdwell Complex	
25-60-03	E-MAD Stormwater Discharge and Piping	Surface Release Point	E-MAD Complex	
25-64-01	Vehicle Washdown and Drainage Pit	Decon Area	NE of F Road and G Road Intersection	

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 557 Spills and Tank Sites**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	7/31/2008	N/A	N/A	N/A	
CADD to State	5/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-25-02	Fuel Spill	Oil/Fuel Spills	Shaker Plant	
03-02-02	Area 3 Subdock UST	Underground Storage Tank	Subdock Complex	
06-99-10	Tar Spills	Other	South of Bldg CP-72	
25-25-18	Train Maintenance Bldg 3901 Spill Site	Oil/Fuel Spills	E-MAD Complex	

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 560 Septic Systems**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	5/31/2008	N/A	N/A	N/A	
CADD to State	3/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-51-01	Leach Pit	Underground Discharge Point	Area 3 Camp	
06-04-02	Septic Tank	Septic Tank	N of Building CP-160	
06-59-03	Building CP-400 Septic System	Septic System	Control Point Area	
06-59-04	Office Trailer Complex Sewage Pond	Septic System	Near the Bulk Fuel Facility	
06-59-05	Control Point Septic System	Septic System	CP Hill	

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 561 Waste Disposal Areas**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	4/30/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-19-01	Waste Dump	Waste Disposal Site	East of Building 1-31.2el	
02-08-02	Waste Dump and Burn Area	Waste Dump	SE of Support Facilities in Area 2	
05-62-01	Radioactive Gravel Pile	Contaminated Soil Site	NW of Gravel Gertie	
12-23-09	Radioactive Waste Dump	Rad Contamination Area	North of Rainer Mesa Road and E-Tunnel turn off	
22-19-06	Buried Waste Disposal Site	Waste Disposal Site	Camp Desert Rock	
23-21-04	Waste Disposal Trenches	Waste Disposal Trench	NE of Building 23-160 in Area 23	
25-08-02	Waste Dump	Waste Dump	North of "G" Road	
25-23-21	Radioactive Waste Dump	Rad Contamination Area	North Side of E-MAD Access Road	
25-25-19	Hydrocarbon Stains and Trench	Oil/Fuel Spills	South of "G" Road	

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 562 Waste Systems**

**Owner: NNSA / Industrial Sites - DP**

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Comments
CAIP to State	5/31/2009	N/A	N/A	N/A	

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-60-01	Mud Trap Drain and Outfall	Surface Release Point	South End DoD Compound	
25-23-22	Contaminated Soils Site	Rad Contamination Area	Test Cell A Complex	

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 563 Septic Systems**

**Owner: NNSA / Industrial Sites - DP**

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Comments
CAIP	2/28/2007	1/23/2007	1/30/2007	1/30/2007	
CADD to State	3/31/2008	N/A	N/A	N/A	

CAS Number	CAS Description	Functional Category	General Location	Map Name
03-04-02	Area 3 Subdock Septic Tank	Septic System	South 3-03 Road	
03-59-05	Area 3 Subdock Cesspool	Septic System	South 3-03 Road	
12-59-01	Drilling/Welding Shop Septic Tanks	Septic Tank	Near E-Tunnel and Rainer Mesa Rds	
12-60-01	Drilling/Welding Shop Outfalls	Surface Release Point	Near E-Tunnel and Rainer Mesa Rds	

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 565 Stored Samples**

**Owner: NNSA / Industrial Sites - DP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	9/30/2006	8/30/2006	9/7/2006	9/7/2006	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 09/30/2005
CADD to State	8/31/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
26-99-04	Ground Zero Soil Samples	Other	Building 26-2106	

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 116 Area 25 Test Cell C Facility**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Closure Report to State	N/A	N/A	N/A	N/A	
SAFER Plan to State	9/30/2006	7/24/2006	8/11/2006	8/11/2006	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-23-20	Nuclear Furnace Piping	Other	Test Cell C	Jackass Flats
25-41-05	Test Cell C Facility	D&D Facility	Building 3210	Jackass Flats

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 117 Area 26 Pluto Disassembly Facility**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Closure Report to State	N/A	N/A	N/A	N/A	
SAFER Plan to State	9/30/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
26-41-01	Pluto Disassembly Facility	D&D Facility	Building 2201	Skull Mountain

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 118 Area 27 Super Kukla Facility**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan Rev 1 to State	N/A	9/20/2006	9/21/2006	9/21/2006	
SAFER Plan to State	9/30/2006	8/24/2006	9/5/2006	9/5/2006	
Closure Report to State	9/30/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
27-41-01	Super Kukla Reactor Building/High Bay and Mechanical Building	D&D Facility	Buildings 5400 & 5400A	Skull Mountain

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 121 Storage Tanks and Miscellaneous Sites**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	7/31/2007	7/3/2007	N/A	N/A	
Closure Report to State	9/30/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Area 12 Camp	Rainier Mesa
12-01-02	Aboveground Storage Tank	Aboveground Storage Tank	Area 12 Water Tank	Rainier Mesa
12-22-26	Drums; 2 AST's	Aboveground Storage Tank	G-Tunnel	Rainier Mesa

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 124 Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	10/31/2007	4/6/2007	4/19/2007	4/19/2007	
Closure Report to State	2/29/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
08-02-01	Underground Storage Tank	Underground Storage Tank	U-8d	Oak Spring
15-02-01	Irrigation Piping	Other	EPA Farm	Oak Spring
16-02-03	Underground Storage Tank	Underground Storage Tank	Area 16 Camp	Tippipah Spring
16-02-04	Fuel Oil Piping	Other	Area 16 Camp	Tippipah Spring
16-99-04	Fuel Line (Buried) and UST	Other	Area 16 Camp	Tippipah Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 127 Areas 25 and 26 Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	8/30/2002	8/28/2002	9/18/2002	9/18/2002	
CADD to State	9/30/2003	9/26/2003	10/13/2003	10/13/2003	
CAP to State	11/1/2004	10/5/2004	10/11/2004	10/11/2004	
Closure Report to State	2/29/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-01-05	Aboveground Storage Tank	Aboveground Storage Tank	Building 3210, Test Cell C	Jackass Flats
25-01-06	Aboveground Storage Tank	Aboveground Storage Tank	Building 3901, ETSM	Jackass Flats
25-01-07	Aboveground Storage Tank	Aboveground Storage Tank	Building 3901, ETSM	Jackass Flats
25-02-02	Underground Storage Tank	Underground Storage Tank	Test Cell C	Jackass Flats
25-02-13	Underground Storage Tank	Underground Storage Tank	X-Tunnel	Striped Hills
25-12-01	Boiler	Boiler	Test Cell C	Jackass Flats
25-23-11	Contaminated Materials	Rad Contamination Area	Test Cell C	Jackass Flats
26-01-01	Filter Tank (RAD) and Piping	Aboveground Storage Tank	Building 2201	Skull Mountain
26-01-02	Filter Tank (RAD)	Aboveground Storage Tank	Building 2201	Skull Mountain
26-02-01	Underground Storage Tank	Underground Storage Tank	Building 2105	Skull Mountain
26-23-01	Contaminated Liquids Spreader	Rad Contamination Area	Area 26 Storage Yard	Skull Mountain
26-99-01	Radioactively Contaminated Filters	Other	Building 2201	Skull Mountain

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 130 Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Closure Report to State	N/A	N/A	N/A	N/A	
SAFER Plan to State	8/31/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-02-01	Underground Storage Tank	Underground Storage Tank	Building 1-31.4b	Yucca Flat
07-02-01	Underground Storage Tanks	Underground Storage Tank	Bunker 7-235	Yucca Flat
07-02-03	Underground Storage Tank	Underground Storage Tank	Bunker 7-800	Yucca Flat
10-02-01	Underground Storage Tank	Underground Storage Tank	U-10x	Oak Spring
20-02-03	Underground Storage Tank	Underground Storage Tank	U-20az	Scrugham Peak
22-02-02	Buried UST Piping	Other	Camp Desert Rock	Point of Rocks
23-02-07	Underground Storage Tank	Underground Storage Tank	Building 119	Mercury

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 134 Aboveground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	5/31/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Milestones Approved by NDEP on 05/01/2006
Closure Report to State	6/30/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-01-03	Aboveground Storage Tank	Aboveground Storage Tank	U-3em	Yucca Flat
03-01-04	Tank	Aboveground Storage Tank	WOD Storage Facility	Yucca Flat
15-01-05	Aboveground Storage Tank	Aboveground Storage Tank	RSM 15 D 20	Oak Spring
29-01-01	Hydrocarbon Stain	Oil/Fuel Spills	Receiver Station	Mine Mountain

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 139 Waste Disposal Sites**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	5/31/2006	4/7/2006	4/18/2006	4/18/2006	
CADD to State	6/30/2007	1/10/2007	1/18/2007	1/18/2007	
CAP to State	3/31/2008	N/A	N/A	N/A	
Closure Report to State	8/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-35-01	Burn Pit	Burn Cage/Pit	S-9e/T-9c	Yucca Flat
04-08-02	Waste Disposal Site	Waste Disposal Site	RSM 4 O-42	Yucca Flat
04-99-01	Contaminated Surface Debris	Waste Disposal Site	Orange Road at 4-04 Road	Yucca Flat
06-19-02	Waste Disposal Site/Burn Pit	Waste Disposal Site	Well 3 Yard, Bldg. 660	Yucca Lake
06-19-03	Waste Disposal Trenches	Waste Disposal Site	Building 6-660	
09-23-01	Area 9 Gravel Gertie	Rad Contamination Area	Circle Road at 9-01 Road	Oak Spring
09-34-01	Underground Detection Station	Magazine/Bunker	Bunker 9-300	Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 145 Wells and Storage Holes**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	10/19/2004	9/30/2004	10/6/2004	10/6/2004	
CADD to State	5/31/2006	4/27/2006	5/4/2006	5/4/2006	
CAP to State	12/31/2006	11/16/2006	12/4/2006	12/4/2006	
Closure Report to State	6/30/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-20-01	Core Storage Holes	Injection Well	Core/ETS Building	Yucca Flat
03-20-02	Decon Pad and Sump	Sump (Cellar)	BJY(U-3kz PS 1A)	Yucca Flat
03-20-04	Injection Wells	Injection Well	Area 3 Subdock	Yucca Flat
03-20-08	Injection Well	Injection Well	Area 3 J-6 Containment	Yucca Flat
03-25-01	Oil Spills	Oil/Fuel Spills	Area 3 Subdock	Yucca Flat
03-99-13	Drain and Injection Well	Injection Well	Core/ETS Building	Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 151 Septic Systems and Discharge Area**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	5/31/2005	6/28/2004	8/3/2004	8/3/2004	
CADD to State	5/31/2006	5/10/2006	6/9/2006	6/9/2006	
CAP to State	5/31/2007	3/3/2007	3/6/2007	3/6/2007	
Closure Report to State	4/30/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-05-01	UE-2ce Pond	Other Ponds/Lagoons	UE-2ce	Rainier Mesa
12-03-01	Sewage Lagoons (6)	Sewage Lagoon	Area 12 Camp	Rainier Mesa
12-04-01	Septic Tanks	Septic Tank	A-12 Camp, Bldg 12-293	Rainier Mesa
12-04-02	Septic Tanks	Septic Tank	Area 12 Camp, Bldg. 4	Rainier Mesa
12-04-03	Septic Tank	Septic Tank	Area 12 Camp	Rainier Mesa
12-47-01	Wastewater Pond	Other Ponds/Lagoons	Buildings 12-8/12-16	Rainier Mesa
18-03-01	Sewage Lagoon	Sewage Lagoon	17 Camp, Castle Rock	Ammonia Tanks
18-99-09	Sewer Line (Exposed)	Other	17 Camp Gas Station	Ammonia Tanks

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 166 Storage Yards and Contaminated Materials**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	7/31/2006	6/16/2006	6/26/2006	6/26/2006	
CADD to State	10/31/2007	3/23/2007	4/3/2007	4/3/2007	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
CAP to State	9/30/2008	N/A	N/A	N/A	
Closure Report to State	9/30/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-42-01	Cond. Release Storage Yd - North	Conditional Release Storage	Area 2 Camp	Oak Spring
02-42-02	Cond. Release Storage Yd - South	Conditional Release Storage	2-07 Road	Oak Spring
02-99-10	D-38 Storage Area	Conditional Release Storage	Area 2 Camp	Oak Spring
03-42-01	Conditional Release Storage Yard	Conditional Release Storage	Area 3 Camp	Yucca Flat
05-19-02	Contaminated Soil and Drum	Waste Disposal Site	Waste Management Area	Cane Spring
18-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Little Feller II	Buckboard Mesa
18-99-03	Wax Piles/Oil Stain	Other Spill Site	Little Feller II	Buckboard Mesa

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 190 Contaminated Waste Sites**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	1/31/2007	12/11/2006	12/14/2006	12/14/2006	
CADD to State	10/30/2007	N/A	N/A	N/A	
CAP to State	8/31/2008	N/A	N/A	N/A	
Closure Report to State	7/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
11-02-01	Underground Centrifuge	Other	Tweezer Facility	Plutonium Valley
11-02-02	Drain Lines and Outfall	Underground Storage Tank	Tweezer Facility	Plutonium Valley
11-59-01	Tweezer Facility Septic System	Septic System	Tweezer Facility	
14-23-01	LTU-6 Test Area	Rad Contamination Area	LTU-6	Mine Mountain

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 224 Decon Pad and Septic Systems**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	5/31/2004	4/22/2004	5/6/2004	5/6/2004	
CADD to State	8/31/2005	5/3/2005	5/11/2005	5/11/2005	
CAP to State	8/30/2006	8/2/2006	8/8/2006	8/8/2006	
Closure Report to State	10/31/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-04-01	Septic Tank (Buried)	Septic Tank	RSM 2 L 13	Oak Spring
03-05-01	Leachfield	Leachfield	Area 3 Subdock/Steampit	Yucca Flat
05-04-01	Septic Tanks(4)/Discharge Area	Septic Tank	Area 5 Trailer Park	Mercury
06-03-01	Sewage Lagoons (3)	Sewage Lagoon	Yucca Lake	Yucca Lake
06-05-01	Leachfield	Leachfield	RSN Building 6-72	Yucca Lake
06-17-04	Decon Pad and Wastewater Catch	Decon Pad	CP-6 Decon Pad	Yucca Lake
06-23-01	Decon Pad Discharge Piping	Decon Pad Discharge Piping	CP-2	Yucca Lake
11-04-01	Sewage Lagoon	Sewage Lagoon	LLNL Tech Facility	Plutonium Valley
23-05-02	Leachfield	Leachfield	Building 155	Mercury

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 234 Mud Pits, Cellars, and Mud Spills**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Closure Report to State	N/A	N/A	N/A	N/A	
CAIP to State	8/31/2007	N/A	N/A	N/A	
CADD to State	9/30/2008	N/A	N/A	N/A	
CAP to State	7/31/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-09-48	Area 2 Mud Plant #1	Mud Pit	Near U-2eu	Oak Spring
02-09-49	Area 2 Mud Plant #2	Mud Pit	Near U-2eu	Oak Spring
02-99-05	Mud Spill	Mud Pit	U-2bp #2 PS #1A	Oak Spring
03-09-02	Mud Dump Trenches	Mud Pit	U-3kz	Yucca Flat
04-44-02	Mud Spill	Mud Pit	U-4at	Yucca Flat
04-99-02	Mud Spill	Mud Pit	Orange Road at U-4at	Yucca Flat
12-09-01	Mud Pit	Mud Pit	U-12r	Rainier Mesa
12-09-04	Mud Pit	Mud Pit	U-12r	Rainier Mesa
12-09-08	Mud Pit	Mud Pit	RSM 12 R 14	Rainier Mesa
12-30-14	Cellar	Sump (Cellar)	U-12r PS #1A/#1AS	Rainier Mesa
12-99-07	Mud Dump	Mud Pit	Area 12 Batch Plant	Rainier Mesa
15-09-01	Mud Pit	Mud Pit	N of EPA Farm	Oak Spring

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 300 Surface Release Areas**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	9/30/2004	6/15/2004	7/8/2004	7/27/2004	
CADD to State	11/13/2005	3/15/2005	3/18/2005	3/18/2005	
CAP to State	8/31/2006	8/2/2006	8/8/2006	8/8/2006	
Closure Report to State	10/31/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
23-21-03	Bldg 750 Surface Discharge	Surface Release Point	Area 23 Fleet Operations	Camp Desert Rock
23-25-02	Bldg 750 Outfall	Surface Release Point	Building 750	Camp Desert Rock
23-25-03	Bldg 751 Outfall	Surface Release Point	Building 751	Camp Desert Rock
25-60-01	Bldg 3113A Outfall	Surface Release Point	Bldg 3113A, Rack and Compensator Facility	Jackass Flats
25-60-02	Bldg 3901 Outfall	Surface Release Point	Bldg 3901, E-MAD Train Shed	Jackass Flats
25-62-01	Bldg 3124 Contaminated Soil	Surface Release Point	Building 3124, Treatability Test Facility	Jackass Flats
26-60-01	Bldg 2105 Outfall and Decon Pad	Surface Release Point	Building 2105, Check Station	Skull Mountain

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 408 Bomblet Target Area (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	11/30/2006	10/31/2006	11/9/2006	11/9/2006	
Closure Report to State	6/30/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
TA-55-002-TAB	Bomblet Target Areas	Buried Ordnance Site	Antelope Lake	Tonopah Test Range

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 484 Surface Debris, Waste Sites, and Burn Area (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	9/30/2004	6/9/2004	7/21/2004	7/28/2004	
Closure Report to State	9/30/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
RG-52-007-TAM	Davis Gun Penetrator Test	DU Surface Debris	Test Range	Tonopah Test Range
TA-52-001-TAN	NEDS Detonation Area	DU Surface Debris	NEDS Lake	Tonopah Test Range
TA-52-004-TAA	Metal Particle Dispersion Test	DU Surface Debris	Antelope Lake	Tonopah Test Range
TA-52-005-TAA	Joint Test Assembly DU Sites	DU Surface Debris	Antelope Lake	Tonopah Test Range
TA-52-006-TAP	Depleted Uranium Site	DU Surface Debris	Colimbo Detonation Area	Tonopah Test Range
TA-54-001-TAN	Containment Tank and Steel Structure	Other	NEDS Lake	Tonopah Test Range

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 537 Waste Sites**

**Owner: NNSA / Industrial Sites - ERP**

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Comments
Closure Report to State	9/30/2007	N/A	N/A	N/A	

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-23-06	Bucket; Yellow Tagged Bags	Rad Contamination Area	Core/ETS Building	Yucca Flat
19-19-01	Trash Pit	Waste Disposal Site	RSM 19 C 19	Dead Horse Flat

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 543 Liquid Disposal Units**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAP Rev 1 to State	N/A	5/14/2007	5/21/2007	5/21/2007	
CAIP to State	6/1/2004	5/3/2004	5/11/2004	5/11/2004	
CADD to State	10/31/2005	9/14/2005	9/26/2005	9/26/2005	
CAP to State	1/31/2007	10/5/2006	10/16/2006	10/16/2006	
Closure Report to State	1/31/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-07-01	Decon Pad	Decon Pad	Bldg. 6-605	Yucca Lake
15-01-03	Aboveground Storage Tank	Aboveground Storage Tank	EPA Farm	Oak Spring
15-04-01	Septic Tank	Septic Tank	EPA Farm	Oak Spring
15-05-01	Leachfield	Leachfield	EPA Farm	Oak Spring
15-08-01	Liquid Manure Tank	Septic Tank	EPA Farm	Oak Spring
15-23-01	Underground Radioactive Material Area	Injection Well	EPA Farm	Oak Spring
15-23-03	Contaminated Sump, Piping	Rad Contamination Area	EPA Farm	Oak Spring

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 545 Dumps, Waste Disposal Sites, and Buried Radioactive Materials**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Closure Report to State	N/A	N/A	N/A	N/A	
CAIP to State	4/30/2008	6/8/2007	N/A	N/A	
CADD to State	9/30/2008	N/A	N/A	N/A	
CAP to State	6/30/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-09-01	Mud Disposal Area	Mud Pit	U-2ei	Oak Spring
03-08-03	Mud Disposal Site	Mud Pit	U-3ai	Yucca Flat
03-17-01	Waste Consolidation Site 3B	Hazardous Waste Site	Unknown	Yucca Flat
03-23-02	Waste Disposal Site	Rad Contamination Area	Tuloso	Yucca Flat
03-23-05	Europium Disposal Site	Rad Contamination Area	Pommard	Yucca Flat
03-99-14	Radioactive Material Disposal Area	Rad Contamination Area	Bandicoot	Yucca Flat
09-23-02	U-9y Drilling Mud Disposal Crater	Rad Contamination Area	Wichita	Oak Spring
20-19-01	Waste Disposal Site	Waste Disposal Site	U-20p	Trail Ridge

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 547 Miscellaneous Contaminated Waste Sites**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	4/30/2008	N/A	N/A	N/A	
Closure Report to State	4/30/2009	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-99-06	Gas Sampling Assembly	Aboveground Storage Tank	U-9cc	Yucca Flat
20-99-05	Tar Residue	Other	U-20z	Silent Butte

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 553 Areas 19, 20 Mud Pits and Cellars**

**Owner: NNSA / Industrial Sites - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
SAFER Plan to State	12/8/2006	11/22/2006	12/6/2006	12/6/2006	
Closure Report to State	9/30/2007	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-99-01	Mud Spill	Mud Pit	U-19ad	Dead Horse Flat
19-99-11	Mud Spill	Mud Pit	U-19q	Dead Horse Flat
20-09-09	Mud Spill	Other Ponds/Lagoons	Pahute Lake	Silent Butte
20-99-03	Mud Spill	Mud Pit	U-20aq	Silent Butte

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 413 Clean Slate II Plutonium Dispersion (TTR)**

**Owner: NNSA / Soils - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Rev. 2 CADD to State	N/A	N/A	N/A	N/A	Updated per PC 06/23/2006
CAP to State	N/A	N/A	N/A	N/A	
Closure Report to State	N/A	N/A	N/A	N/A	Added per PC 06/13/2006
CAIP to State	9/30/1996	5/28/1996	1/16/1997	1/16/1997	Document contains CAUs 412, 413, 414
CADD to State	1/31/2005	1/4/2005	3/9/2005	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
TA-23-02CS	Pu Contaminated Soil	Rad Contamination Area	Clean Slates II	Tonopah Test Range

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 101 Central Pahute Mesa**

**Owner: NNSA / UGTA - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	9/30/1998	9/29/1998	1/6/1999	12/20/1999	Rev. 1 approved. Document contains CAUs 101, 102.
Submit Description of the Proposed Scope of Work Related to Each Lab Study on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	12/31/2001	12/21/2001	1/4/2002	N/A	NDEP approval not required.
Submit Draft Phase I Transport Parameter Data Documentation Package to NDEP	9/30/2002	9/10/2002	4/25/2003	N/A	NDEP approval not required.
Complete Laboratory Studies on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	11/30/2002	10/30/2002	4/25/2003	N/A	NDEP approval not required.
Submit Draft Phase I Hydrologic Data Documentation Package to NDEP	7/31/2003	4/3/2003	5/9/2003	N/A	NDEP approval not required.
Complete the Calibration of the Flow Model	7/31/2004	7/20/2004	8/18/2004	N/A	NDEP approval not required.
Submit Final Source Term Report	8/30/2004	8/19/2004	9/27/2004	N/A	NDEP approval not required.
Submit Draft Contaminant Boundary Phase I Flow Model Report	7/31/2005	6/14/2005	8/12/2005	N/A	
Submit Final Phase I Flow Model Report	7/31/2006	6/7/2006	6/20/2007	N/A	NDEP approval not required
Draft Phase I Transport Model	2/4/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
REV. (0) CAIP Addendum to State	6/30/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-57-001	U-19aa Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-002	U-19ab Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-003	U-19ac Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-004	U-19ad Cavity	Underground Test/Detonation Cavity		Dead Horse Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 101 Central Pahute Mesa**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-57-005	U-19ae Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-006	U-19af Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-007	U-19ai Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-008	U-19aj Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-009	U-19ak Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-010	U-19an Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-011	U-19aq Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-012	U-19ar Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-013	U-19as Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-014	U-19au Cavity	Underground Test/Detonation Cavity		Silent Butte
19-57-015	U-19ax Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-016	U-19ay Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-017	U-19az Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-018	U-19b Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-019	U-19ba Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-020	U-19bg Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-021	U-19c Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-022	U-19d Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-023	U-19e Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-024	U-19f Cavity	Underground Test/Detonation Cavity		Ammonia Tanks

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 101 Central Pahute Mesa**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-57-025	U-19g Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-026	U-19i Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-027	U-19L Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-028	U-19n Cavity	Underground Test/Detonation Cavity		Silent Butte
19-57-029	U-19p Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-030	U-19q Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-031	U-19t Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-032	U-19u Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-033	U-19v Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-034	U-19x Cavity	Underground Test/Detonation Cavity		Ammonia Tanks
19-57-035	U-19ys Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
19-57-036	U-19zs Cavity	Underground Test/Detonation Cavity		Dead Horse Flat
20-57-002	U-20a Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-003	U-20aa Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-004	U-20ab Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-005	U-20ac Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-006	U-20ad Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-008	U-20af Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-010	U-20ah Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-011	U-20ai Cavity	Underground Test/Detonation Cavity		Silent Butte

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 101 Central Pahute Mesa**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-57-012	U-20aj Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-014	U-20aL Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-015	U-20am Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-016	U-20an Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-018	U-20ap Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-020	U-20ar Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-023	U-20av Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-024	U-20aw Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-025	U-20ay Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-026	U-20az Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-027	U-20b Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-030	U-20bd Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-031	U-20be Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-032	U-20bf Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-035	U-20e Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-037	U-20g Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-038	U-20h Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-039	U-20i Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-041	U-20n Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-046	U-20z Cavity	Underground Test/Detonation Cavity		Silent Butte

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 102 Western Pahute Mesa**

**Owner: NNSA / UGTA - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CADD to State	N/A	N/A	N/A	N/A	
CAIP to State	9/30/1998	9/29/1998	1/6/1999	12/20/1999	Rev. 1 approved. Document contains CAUs 101, 102.
Submit Description of the Proposed Scope of Work Related to Each Lab Study on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	12/31/2001	12/21/2001	1/4/2002	N/A	NDEP approval not required.
Submit Draft Phase I Transport Parameter Data Documentation Package to NDEP	9/30/2002	9/10/2002	4/25/2003	N/A	NDEP approval not required.
Complete Laboratory Studies on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	11/30/2002	10/30/2002	4/25/2003	N/A	NDEP approval not required.
Submit Draft Phase I Hydrologic Data Documentation Package to NDEP	7/31/2003	4/3/2003	5/9/2003	N/A	NDEP approval not required.
Complete the Calibration of the Flow Model	7/31/2004	7/20/2004	8/18/2004	N/A	NDEP approval not required.
Submit Final Source Term Report	8/30/2004	8/19/2004	9/27/2004	N/A	NDEP approval not required.
Submit Draft Contaminant Boundary Phase I Flow Model Report	7/31/2005	6/14/2005	8/12/2005	N/A	
Submit Final Phase I Flow Model Report	7/31/2006	6/7/2006	6/20/2007	N/A	NDEP approval not required
Draft Phase I Transport Model	2/4/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
REV. (0) CAIP Addendum to State	6/30/2008	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-57-001	U-20a Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-007	U-20ae Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-009	U-20ag Cavity	Underground Test/Detonation Cavity		Scrugham Peak

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 102 Western Pahute Mesa**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-57-013	U-20ak Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-017	U-20ao Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-019	U-20aq Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-021	U-20as Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-022	U-20at Cavity	Underground Test/Detonation Cavity		Thirsty Canyon
20-57-028	U-20bb Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-029	U-20bc Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-033	U-20c Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-034	U-20d Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-036	U-20f Cavity	Underground Test/Detonation Cavity		Silent Butte
20-57-040	U-20m Cavity	Underground Test/Detonation Cavity		Trail Ridge
20-57-042	U-20p Cavity	Underground Test/Detonation Cavity		Trail Ridge
20-57-043	U-20t Cavity	Underground Test/Detonation Cavity		Scrugham Peak
20-57-044	U-20v Cavity	Underground Test/Detonation Cavity		Trail Ridge
20-57-045	U-20y Cavity	Underground Test/Detonation Cavity		Scrugham Peak

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	11/1/2000	10/5/2000	10/31/2000	1/16/2001	
Complete the Construction of Five Drilling Pad Locations in Yucca Flat	8/30/2002	6/4/2002	4/25/2003	N/A	NDEP approval not required.
Initiate Drilling in Yucca Flat	10/18/2002	10/4/2002	4/25/2003	N/A	NDEP approval not required.
Initiate Well Development, Testing, & Sampling Activities in Yucca Flat	7/31/2003	4/24/2003	5/9/2003	N/A	NDEP approval not required.
Complete the Resurvey of Measuring Points in Yucca Flat to Improve Accuracy of Previous Measurements	9/30/2003	9/5/2003	9/17/2003	N/A	NDEP approval not required.
Submit Draft Contaminant Boundary Phase I Modeling Approach/Strategy	4/30/2004	3/18/2003	4/16/2003	N/A	NDEP approval not required.
Complete Well Development & Testing of New Wells	9/17/2004	9/13/2004	9/23/2004	N/A	NDEP approval not required.
Complete EarthVision Base Model	3/30/2005	3/23/2005	3/24/2005	N/A	
Complete the Hydrology Phase I Analysis & Evaluation	9/30/2005	9/29/2005	9/30/2005	N/A	
Submit Hydrostratigraphic Model and Alternatives for the Groundwater Flow and Contaminant Transport Model	2/1/2006	1/24/2006	3/16/2006	N/A	NDEP approval not required
Submit Phase I Hydrology Documentation Package	7/1/2006	6/26/2006	6/27/2007	N/A	NDEP approval not required
Draft Phase I Transport Parameters	5/1/2007	5/1/2007	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Final Phase I Transport Parameters	7/2/2007	6/19/2007	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Draft Phase I Source Term	5/19/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Draft Phase I Flow Model	9/8/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-57-001	U-1a Cavity	Underground Test/Detonation Cavity		Yucca Flat
01-57-002	U-1c Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-57-003	U1d Cavity (2)	Underground Test/Detonation Cavity		Yucca Flat
02-57-001	U-2a Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-002	U-2aa Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-003	U-2ab Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-004	U-2ad Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-005	U-2af Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-006	U-2ag Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-007	U-2ah Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-008	U-2ai Cavities (2)	Underground Test/Detonation Cavity		Oak Spring
02-57-009	U-2ak Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-010	U-2aL Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-011	U-2am Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-013	U-2an Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-014	U-2ao Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-015	U-2ap Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-016	U-2ar Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-017	U-2as Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-018	U-2at Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-019	U-2au Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-020	U-2av Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-021	U-2aw Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-022	U-2ax Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-023	U-2ay-1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-024	U-2ay-2 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-025	U-2ay-3 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-026	U-2az-1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-027	U-2az-2 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-028	U-2az-3 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-029	U-2b Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-030	U-2bc Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-031	U-2bd Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-032	U-2be Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-033	U-2bf Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-034	U-2bg Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-035	U-2bh Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-036	U-2bi Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-037	U-2bj Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-038	U-2bL Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-039	U-2bm Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-040	U-2bn Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-041	U2bo1 Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-042	U-2bp-1 Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-043	U-2bp-2 Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-044	U-2bq-1 Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-045	U-2bq-2 Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-046	U-2br Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-047	U-2bs Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-048	U-2bu Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-049	U-2bv Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-050	U-2bw Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-051	U-2bx Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-052	U-2by Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-053	U-2bz Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-054	U-2c Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-055	U-2ca Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-056	U-2cc Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-057	U-2cd Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-058	U-2ce Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-059	U-2cg Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-060	U-2ch Cavity	Underground Test/Detonation Cavity		Rainier Mesa

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-061	U-2ci Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-062	U-2cj Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-063	U-2ck Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-064	U-2cm Cavity	Underground Test/Detonation Cavity		Tippipah Spring
02-57-065	U-2cn Cavity	Underground Test/Detonation Cavity		Tippipah Spring
02-57-066	U-2co Cavity	Underground Test/Detonation Cavity		Tippipah Spring
02-57-067	U-2cp Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-068	U-2cq Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-069	U-2cr Cavity	Underground Test/Detonation Cavity		Rainier Mesa
02-57-070	U-2cs Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-072	U-2cu Cavities (2)	Underground Test/Detonation Cavity		Oak Spring
02-57-073	U-2db Cavities (3)	Underground Test/Detonation Cavity		Oak Spring
02-57-074	U-2dc-1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-075	U-2dc-2 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-076	U-2dc-3 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-077	U-2dc-4 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-078	U-2dc-5 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-079	U-2dc-6 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-080	U-2dd-2 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-081	U-2dd-3 Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-082	U-2de Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-083	U-2df Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-084	U-2dg Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-085	U-2dh-2 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-086	U-2dh-3 Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-087	U-2di Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-088	U-2dj Cavities (3)	Underground Test/Detonation Cavity		Oak Spring
02-57-089	U-2dk Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-090	U-2dL Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-091	U-2dm Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-092	U-2dn Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-093	U-2do Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-094	U-2dp Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-095	U-2dq Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-096	U-2dr Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-097	U-2ds Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-098	U-2dt Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-099	U-2du Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-100	U-2dv Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-101	U-2dw Cavities (2)	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-102	U-2dy Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-103	U-2dz Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-104	U-2e Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-105	U-2ea Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-106	U-2eb Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-107	U-2ef Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-108	U-2eg Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-109	U-2eh Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-110	U-2ei Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-111	U-2ek Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-112	U-2eL Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-113	U-2em Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-114	U-2en Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-115	U-2eo Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-116	U-2ep Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-117	U-2eq Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-118	U-2er Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-119	U-2es Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-120	U-2et Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-121	U-2eu Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-122	U-2ev Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-123	U-2ew Cavities (2)	Underground Test/Detonation Cavity		Yucca Flat
02-57-124	U-2ex Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-125	U-2ey Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-126	U-2ey Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-127	U-2f Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-128	U-2fa Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-129	U-2fb Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-130	U-2fc Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-131	U-2fd Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-132	U-2fe Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-133	U-2ff Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-134	U-2g Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-135	U-2ga-S Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-136	U-2gb Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-137	U-2ge Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-138	U-2gf Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-139	U-2gg Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-140	U-2gh Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-141	U-2h Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

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<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-57-142	U-2j Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-143	U-2L Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-144	U-2m Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-145	U-2n Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-146	U-2p Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-147	U-2q Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-148	U-2r Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-149	U-2t Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-150	U-2u Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-151	U-2v Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-152	U-2x Cavity	Underground Test/Detonation Cavity		Yucca Flat
02-57-153	U-2y Cavity	Underground Test/Detonation Cavity		Oak Spring
02-57-154	U2bo2 Cavity	Underground Test/Detonation Cavity		Oak Spring
03-57-001	U-3aa Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-002	U-3ab Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-003	U-3ac Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-004	U-3ad Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-005	U-3ae Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-006	U-3af Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-007	U-3ag Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-008	U-3ah Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-009	U-3ai Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-010	U-3aj-S Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-011	U-3ak Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-012	U-3aL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-013	U-3am-S Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-014	U-3an Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-015	U-3ao Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-016	U-3ap Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-017	U-3aq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-018	U-3ar Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-019	U-3as Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-020	U-3at Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-021	U-3au-S Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-022	U-3av Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-023	U-3aw Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-024	U-3ax Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-025	U-3ay Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-026	U-3az Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-027	U-3ba Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-028	U-3bb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-029	U-3bc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-030	U-3bd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-031	U-3be Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-032	U-3bf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-033	U-3bg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-034	U-3bh Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-035	U-3bj Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-036	U-3bk Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-037	U-3bL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-038	U-3bm Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-039	U-3bn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-040	U-3bo Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-041	U-3bp Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-042	U-3bq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-043	U-3br Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-044	U-3bs Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-045	U-3bt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-046	U-3bu Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-047	U-3bv Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-048	U-3bw Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-049	U-3bx Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-050	U-3by Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-051	U-3bz Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-052	U-3cb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-053	U-3cd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-054	U-3cf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-055	U-3cg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-056	U-3ch Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-057	U-3cj Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-058	U-3cn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-059	U-3co Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-060	U-3cp Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-061	U-3cr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-062	U-3ct Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-063	U-3cu Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-064	U-3cv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-065	U-3cx Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-066	U-3cy Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-067	U-3cz Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-068	U-3d Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-069	U-3da-S Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-070	U-3db Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-071	U-3dd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-072	U-3dd-1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-073	U-3dd-4 Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-074	U-3de Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-075	U-3df Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-076	U-3dg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-077	U-3dh Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-078	U-3di Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-079	U-3dj Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-080	U-3dk Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-081	U-3dL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-082	U-3dm Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-083	U-3dn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-084	U-3do Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-085	U-3dp Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-086	U-3dr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-087	U-3ds Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-088	U-3dt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-089	U-3du Cavity	Underground Test/Detonation Cavity		Oak Spring
03-57-090	U-3dw Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-091	U-3dx Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-092	U-3dy Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-093	U-3dz Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-094	U-3e Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-095	U-3eb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-096	U-3ec Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-097	U-3ed Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-098	U-3ee Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-099	U-3hp Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-100	U-3ef Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-102	U-3eh Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-103	U-3ei Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-104	U-3ej Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-105	U-3ek Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-106	U-3eL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-107	U-3em Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-108	U-3en Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-109	U-3eo Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-110	U-3ep Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-111	U-3eq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-112	U-3er Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-113	U-3es Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-114	U-3et Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-115	U-3eu Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-116	U-3ev-2s Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-117	U-3ew Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-118	U-3ex Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-119	U-3ey Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-120	U-3ez Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-121	U-3fa Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-122	U-3fb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-123	U-3fc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-124	U-3fd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-125	U-3fe Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-126	U-3ff Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-127	U-3fh Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-128	U-3fj Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-129	U-3fk Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-130	U-3fm Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-131	U-3fn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-132	U-3fq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-133	U-3fr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-134	U-3fs Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-135	U-3fu Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-136	U-3fv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-137	U-3fw Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-138	U-3fx Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-139	U-3fy Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-140	U-3fz Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-141	U-3ga Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-142	U-3gb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-143	U-3gc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-144	U-3gd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-145	U-3ge Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-146	U-3gf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-147	U-3gg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-148	U-3gh Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-149	U-3gi Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-150	U-3gj Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-151	U-3gk Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-152	U-3gL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-153	U-3gm Cavity	Underground Test/Detonation Cavity		Plutonium Valley
03-57-154	U-3gn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-155	U-3go Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-156	U-3gq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-157	U-3gr Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-158	U-3gs Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-159	U-3gt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-160	U-3gu Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-161	U-3gv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-162	U-3gx Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-163	U-3gz Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-164	U-3ha Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-165	U-3hb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-166	U-3hc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-167	U-3hd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-168	U-3he Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-169	U-3hf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-170	U-3hg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-171	U-3hh Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-172	U-3hi-A Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-173	U-3hi-B Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-174	U-3hj Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-175	U-3hk-a Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-176	U-3hk-b Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-177	U-3hk-d Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-178	U-3hk-c Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-179	U-3hk-e Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-180	U-3hk-f Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-181	U-3hL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-182	U-3ho Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-183	U-3hm Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-184	U-3hn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-185	U-3hq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-186	U-3hr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-187	U-3hs Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-188	U-3ht Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-189	U-3hu Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-190	U-3hv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-191	U-3hx Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-192	U-3hy Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-193	U-3hz Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-194	U-3j Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-195	U-3ja Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-196	U-3jb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-197	U-3jc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-198	U-3jd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-199	U-3je Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-200	U-3jf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-201	U-3jg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-202	U-3jh Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-203	U-3ji Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-204	U-3jj Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-205	U-3jk Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-206	U-3jL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-207	U-3jm Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-208	U-3jn Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

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<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-209	U-3jp Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-210	U-3jq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-211	U-3jr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-212	U-3js Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-213	U-3jt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-214	U-3ju Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-215	U-3jv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-216	U-3jw Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-217	U-3jx Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-218	U-3jy Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-219	U-3k Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-220	U-3kb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-221	U-3kc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-222	U-3kd Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-223	U-3kf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-224	U-3kg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-225	U-3ki Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-226	U-3kj Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-227	U-3kk Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-228	U-3km Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**CAU Number: 97 Yucca Flat/Climax Mine**

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<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-229	U-3kn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-230	U-3kp Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-231	U-3kq Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-232	U-3kr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-233	U-3ks Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-234	U-3kt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-235	U-3ku Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-236	U-3kv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-237	U-3kw Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-238	U-3kx Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-239	U-3ky Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-240	U-3kz Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-241	U-3La Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-242	U-3Lb Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-243	U-3Lc Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-244	U-3Ld Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-245	U-3Lf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-246	U-3Lg Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-247	U-3Lh Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-248	U-3Li Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**CAU Number: 97 Yucca Flat/Climax Mine**

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<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-249	U-3Lj Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-250	U-3Lk Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-251	U-3LL Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-252	U-3Lm Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-253	U-3Lo Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-254	U3Lp Cavity (2)	Underground Test/Detonation Cavity		Yucca Flat
03-57-255	U-3Lr Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-256	U-3Ls Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-257	U-3Lt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-258	U-3Lu Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-259	U-3Lv Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-260	U-3Lw Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-261	U-3Lz Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-262	U-3m Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-263	U-3mc Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-264	U-3me Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-265	U-3mf Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-266	U-3mg Cavity	Underground Test/Detonation Cavity		Yucca Lake
03-57-267	U-3mh Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-268	U-3mk Cavity	Underground Test/Detonation Cavity		Paiute Ridge

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<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-57-269	U-3mL Cavity	Underground Test/Detonation Cavity		Paiute Ridge
03-57-270	U-3mn Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-271	U-3mt Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-272	U-3n Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-273	U-3p Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-274	U-3q Cavity	Underground Test/Detonation Cavity		Yucca Flat
03-57-275	U-3r Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-001	U-4a Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-002	U-4aa Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-003	U-4ab Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-004	U-4ac Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-005	U-4af Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-006	U-4ah Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-007	U-4ai Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-008	U-4aj Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-009	U-4ak Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-010	U-4aL Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-011	U-4am Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-012	U-4an Cavities (3)	Underground Test/Detonation Cavity		Yucca Flat
04-57-013	U-4ar Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**CAU Number: 97 Yucca Flat/Climax Mine**

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<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-57-014	U-4as Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-015	U-4at Cavities (3)	Underground Test/Detonation Cavity		Yucca Flat
04-57-016	U-4au Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-017	U-4av Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-018	U-4b Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-019	U-4c Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-020	U-4d Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-021	U-4e Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-022	U-4f Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-023	U-4g Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-024	U-4h Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-025	U-4i Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-026	U-4j Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-027	U-4L Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-028	U-4n Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-029	U-4o Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-030	U-4p Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-031	U-4q Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-032	U-4r Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-033	U-4s Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-57-034	U-4t Cavity	Underground Test/Detonation Cavity		Yucca Flat
04-57-035	U-4u Cavity	Underground Test/Detonation Cavity		Yucca Flat
06-57-001	U-6a Cavity	Underground Test/Detonation Cavity		Yucca Lake
06-57-002	U-6d Cavity	Underground Test/Detonation Cavity		Yucca Lake
06-57-003	U-6e Cavity	Underground Test/Detonation Cavity		Yucca Lake
06-57-004	U-6g Cavity	Underground Test/Detonation Cavity		Yucca Lake
06-57-005	U-6h Cavity	Underground Test/Detonation Cavity		Yucca Lake
06-57-006	U-6i Cavity	Underground Test/Detonation Cavity		Yucca Lake
07-57-001	U-7a Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-002	U-7aa Cavity	Underground Test/Detonation Cavity		Paiute Ridge
07-57-003	U-7ab Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-004	U-7ac Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-005	U-7ad Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-006	U-7ae Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-007	U-7af Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-008	U-7ag Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-009	U-7ah Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-010	U-7ai Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-011	U-7aj-S Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-012	U-7ak Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
07-57-013	U-7aL Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-014	U-7am Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-015	U-7an Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-016	U-7ao Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-017	U-7ap Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-018	U-7aq Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-019	U-7at Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-020	U-7au Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-021	U-7av Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-022	U-7ax Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-023	U-7ay Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-024	U-7b Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-025	U-7ba Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-026	U-7bd Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-027	U-7be Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-028	U-7bg Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-029	U-7bh Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-030	U-7bi Cavity	Underground Test/Detonation Cavity		Paiute Ridge
07-57-031	U-7bk Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-032	U-7bL Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
07-57-033	U-7bm Cavity	Underground Test/Detonation Cavity		Paiute Ridge
07-57-034	U-7bo Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-035	U-7bp Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-036	U-7br Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-037	U-7bs Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-038	U-7bu Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-039	U-7bv Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-040	U-7by Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-041	U-7ca Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-042	U-7cb Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-043	U-7e Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-044	U-7f Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-045	U-7g Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-046	U-7h Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-047	U-7j Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-048	U-7k Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-049	U-7i Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-050	U-7m Cavity	Underground Test/Detonation Cavity		Paiute Ridge
07-57-051	U-7n Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-052	U-7o Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
07-57-053	U-7p Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-054	U-7r Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-055	U-7s Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-056	U-7t Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-057	U-7u Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-058	U-7v Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-059	U-7w Cavity	Underground Test/Detonation Cavity		Paiute Ridge
07-57-060	U-7x Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-061	U-7y Cavity	Underground Test/Detonation Cavity		Yucca Flat
07-57-062	U-7z Cavity	Underground Test/Detonation Cavity		Yucca Flat
08-57-001	U-8a Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-002	U-8b Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-003	U-8c Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-004	U8e Cavity (2)	Underground Test/Detonation Cavity		Oak Spring
08-57-005	U-8j Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-006	U-8k Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-007	U-8L Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-008	U-8m Cavity	Underground Test/Detonation Cavity		Oak Spring
08-57-009	U8n Cavity (2)	Underground Test/Detonation Cavity		Oak Spring
08-57-010	U-8d Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-57-001	U-9 ITS T-28 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-002	U-9 ITS U-24 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-003	U9itsv26 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-004	U9iv24 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-005	U9iv27 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-006	U-9 ITS W-21 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-007	U-9 ITS X-20 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-008	U-9 ITS X-23 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-009	U-9 ITS X-24 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-010	U-9 ITS X-27 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-011	U-9 ITS X-28 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-012	U-9 ITS X-29 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-013	U9iy27 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-014	U-9 ITS Y-30 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-015	U-9 ITS Z-21 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-016	U-9 ITS Z-24 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-017	U9iz25 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-018	U-9 ITS Z-26 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-019	U-9 ITS Z-27 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-020	U-9 ITS-XY-31 Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-57-021	U9itsw22 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-022	U9itsw24.5 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-023	U-9a Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-024	U-9aa Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-025	U-9ab Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-026	U-9ac Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-027	U-9ad Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-028	U-9ae Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-029	U-9af Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-030	U-9ah Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-031	U-9ai Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-032	U-9aj Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-033	U-9ak #1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-034	U-9ak Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-035	U-9aL Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-036	U-9ao Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-037	U-9ap Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-038	U-9aq Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-039	U-9ar Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-040	U-9at Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-57-041	U-9au Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-042	U-9av Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-043	U-9aw Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-044	U-9ax Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-045	U-9ay Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-046	U-9az Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-048	U-9b Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-049	U-9ba Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-050	U-9bb Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-051	U-9bc Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-052	U-9bd Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-053	U-9be Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-054	U-9bf Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-055	U-9bg Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-056	U-9bh Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-057	U-9bi-1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-058	U-9bi-2 Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-059	U-9bj Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-060	U-9bk Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-061	U-9bm Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-57-062	U-9bn Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-063	U-9bo Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-064	U-9bp Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-065	U-9br Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-066	U-9bs Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-067	U-9bt Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-068	U-9bu Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-069	U-9bv Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-070	U-9bx Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-071	U-9by Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-072	U-9bz Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-073	U-9c Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-074	U-9cb Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-075	U-9cc Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-076	U-9ce Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-077	U-9cf Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-078	U-9cg Cavities (2)	Underground Test/Detonation Cavity		Oak Spring
09-57-079	U-9ch Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-080	U-9ci Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-081	U-9cj Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-57-082	U-9ck Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-083	U-9cL Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-084	U-9cm Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-085	U-9cn Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-086	U-9cp Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-087	U-9cq Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-088	U-9cr Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-089	U-9cs Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-090	U-9cv Cavities (3)	Underground Test/Detonation Cavity		Yucca Flat
09-57-091	U-9cw Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-092	U-9d Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-093	U-9e Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-094	U-9f Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-095	U-9g Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-096	U-9h Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-098	U-9i Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-099	U9itss25 Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-100	U9itsyz26 Cavities (2)	Underground Test/Detonation Cavity		Oak Spring
09-57-101	U-9j Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-102	U-9k Cavity	Underground Test/Detonation Cavity		Yucca Flat

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-57-103	U-9L Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-104	U-9m Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-105	U-9n Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-106	U-9p Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-107	U-9q Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-108	U-9r Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-109	U-9u Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-110	U-9v Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-111	U-9w Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-112	U-9w-1 Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-113	U-9x Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-114	U-9y Cavity	Underground Test/Detonation Cavity		Oak Spring
09-57-115	U-9z Cavity	Underground Test/Detonation Cavity		Yucca Flat
09-57-116	U-9 ITS AA-25 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-001	U-10a Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-002	U-10aa Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-003	U-10ab Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-004	U-10ad Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-005	U-10af Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-006	U-10ag Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-57-007	U-10ah Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-008	U-10ai Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-009	U-10aj-A Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-010	U-10aj-B Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-011	U-10aj-C Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-012	U-10aj-D Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-013	U-10aj-F Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-014	U-10ak Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-015	U-10am-1 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-016	U-10am-2 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-017	U-10am-3 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-018	U-10am-4 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-019	U-10an Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-020	U-10ap-1 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-021	U-10ap-3 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-022	U-10aq Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-023	U-10ar Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-024	U-10as Cavities (3)	Underground Test/Detonation Cavity		Oak Spring
10-57-025	U-10at Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-026	U-10av Cavity	Underground Test/Detonation Cavity		Oak Spring

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-57-027	U-10aw Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-028	U-10ax Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-029	U-10ay Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-030	U-10b Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-031	U10ba Cavity (2)	Underground Test/Detonation Cavity		Oak Spring
10-57-032	U10bb Cavity (2)	Underground Test/Detonation Cavity		Oak Spring
10-57-033	U-10bc Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-034	U-10bd Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-035	U-10be Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-036	U-10bf Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-037	U-10bg Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-038	U-10bh Cavities (3)	Underground Test/Detonation Cavity		Oak Spring
10-57-039	U-10c Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-040	U-10ca Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-041	U-10cb Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-042	U-10cc Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-043	U-10ds Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-044	U-10ds-1 Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-045	U-10e Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-046	U-10f Cavity	Underground Test/Detonation Cavity		Oak Spring

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 97 Yucca Flat/Climax Mine**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-57-047	U-10g Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-048	U-10i Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-049	U-10k Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-050	U-10m Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-051	U-10n Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-052	U-10p Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-053	U-10q Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-054	U-10r Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-055	U-10s Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-056	U-10t Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-057	U-10u Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-058	U-10w Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-059	U-10x Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-060	U-10y Cavity	Underground Test/Detonation Cavity		Oak Spring
10-57-061	U-10z Cavity	Underground Test/Detonation Cavity		Oak Spring
15-57-001	U-15a Cavity	Underground Test/Detonation Cavity		Oak Spring
15-57-002	U-15.01 Cavity	Underground Test/Detonation Cavity		Oak Spring
15-57-003	U-15e Cavity	Underground Test/Detonation Cavity		Oak Spring

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 98 Frenchman Flat**

**Owner: NNSA / UGTA - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
CAIP to State	7/31/1997	7/28/1997	8/18/1997	9/21/1999	Rev. 1 approved
Initiate Drilling at ER-5-4 #2	8/30/2002	7/15/2002	4/25/2003	N/A	NDEP approval not required.
Complete Well Development and Aquifer Testing Activities in Frenchman Flat	9/30/2003	9/18/2003	9/25/2003	N/A	NDEP approval not required.
Complete Transport Parameter Phase II Analysis and Evaluation	9/3/2004	8/19/2004	8/31/2004	N/A	NDEP approval not required.
Submit Draft Hydrology Phase II Report	9/30/2004	9/2/2004	10/18/2004	N/A	NDEP approval not required.
Submit Draft Transport Parameters Phase II Report	2/4/2005	11/16/2004	2/3/2005	N/A	
Complete Frenchman Flat Phase II Flow Model	9/30/2005	9/29/2005	9/30/2005	N/A	
Initiate Phase II Transport Modeling	3/15/2006	3/10/2006	3/14/2006	3/14/2006	NDEP approval not required
Submit Phase II Flow Model Report	5/31/2006	5/3/2006	5/8/2006	N/A	NDEP approval not required
Draft Phase II Transport Model	8/1/2007	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Phase II Transport Model Documentation Package	6/16/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Model Document for External Peer Review	8/11/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-20-02	Evaporation Pond	Injection Well	RNM 2S Well	Frenchman Lake
05-57-001	U-5a Cavity	Underground Test/Detonation Cavity		Frenchman Lake
05-57-002	U-5b Cavity	Underground Test/Detonation Cavity		Frenchman Lake
05-57-003	U-5e Cavity	Underground Test/Detonation Cavity		Frenchman Lake
05-57-004	U-5i Cavity	Underground Test/Detonation Cavity		Plutonium Valley
05-57-005	U-5k Cavity	Underground Test/Detonation Cavity		Frenchman Lake

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 98 Frenchman Flat**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
11-57-001	U-11b Cavity	Underground Test/Detonation Cavity		Plutonium Valley
11-57-002	U-11c Cavity	Underground Test/Detonation Cavity		Plutonium Valley
11-57-003	U-11e Cavity	Underground Test/Detonation Cavity		Plutonium Valley
11-57-004	U-11f Cavity	Underground Test/Detonation Cavity		Plutonium Valley
11-57-005	U-11g Cavity	Underground Test/Detonation Cavity		Plutonium Valley

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 99 Rainier/Shoshone**

**Owner: NNSA / UGTA - ERP**

<b>Milestone</b>	<b>Deadline</b>	<b>Submitted</b>	<b>Milestone NOC Date</b>	<b>Approval Date</b>	<b>Comments</b>
Initiate Value of Information Analysis (VOIA)	12/31/2003	12/3/2003	12/16/2003	N/A	NDEP approval not required.
CAIP to State	12/31/2004	12/22/2004	2/2/2005	2/2/2005	
Complete Drilling Phase I	9/29/2005	9/29/2005	9/30/2005	N/A	
Complete Well Development & Testing	4/1/2006	3/22/2006	4/10/2006	N/A	NDEP approval not required
Initiate Phase I Hydrostratigraphic Model	6/1/2006	6/1/2006	6/5/2006	N/A	NDEP approval not required
					Per Bill Wilborn, the milestone title should be as stated above. Submitted on 06/01/2006.
Draft Phase I Hydrostratigraphic Model	12/1/2006	11/28/2006	11/29/2006	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Final Phase I Hydrostratigraphic Model	3/30/2007	3/22/2007	6/18/2007	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Draft Phase I Model Approach Strategy	1/2/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Final Phase I Model Approach Strategy	3/3/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Draft Phase I Transport Parameters	3/17/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Draft Phase I Hydrology Documentation Package	4/14/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Well Development, Testing, & Sampling for ER-16-1	4/16/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Final Phase I Transport Parameters	7/14/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Final Phase I Hydrology Documentation Package	7/28/2008	N/A	N/A	N/A	FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006
Closure Report to State	3/30/2028	N/A	N/A	N/A	

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
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**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 99 Rainier/Shoshone**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-57-001	U-12b Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-002	U-12b.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-003	U-12b.04 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-004	U-12b.08 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-005	U-12b.09 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-006	U-12b.10 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-007	U12c.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-008	U-12c.03 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-009	U12d.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-010	U12c.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-011	U-12e.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-012	U-12e.03a Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-013	U-12e.05 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-014	U-12e.10 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-015	U-12e.11 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-016	U-12e.12 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-017	U-12e.14 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-018	U-12e.18 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-019	U-12f.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-020	U12f.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa

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**Appendix III - Corrective Action Sites/Units**

**CAU Number: 99 Rainier/Shoshone**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-57-021	U-12g.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-022	U-12g.06 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-023	U-12g.07 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-024	U-12g.09 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-025	U-12g.10 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-026	U-12j.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-027	U-12k.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-028	U-12n.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-029	U-12n.04 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-030	U-12n.05 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-031	U-12n.06 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-032	U-12n.07 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-033	U-12n.08 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-034	U-12n.09 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-035	U-12e.20 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-036	U-12n.10 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-037	U-12n.10a Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-038	U-12n.11 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-039	U-12n.12 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-040	U-12n.15 Cavities (2)	Underground Test/Detonation Cavity		Rainier Mesa

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 99 Rainier/Shoshone**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-57-041	U-12n.17 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-042	U-12n.18 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-043	U-12n.19 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-044	U-12n.20 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-045	U-12n.21 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-046	U-12n.22 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-047	U-12n.23 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-048	U-12n.24 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-049	U-12p.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-050	U-12p.03 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-051	U-12p.04 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-052	U-12p.05 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-053	U-12q Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-054	U-12r Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-055	U-12t.01 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-056	U-12t.02 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-057	U-12t.03 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-058	U-12t.04 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-060	U-12t.08 Cavity	Underground Test/Detonation Cavity		Rainier Mesa
12-57-061	U-12t.09 Cavity	Underground Test/Detonation Cavity		Rainier Mesa

**FFACO**  
**Appendix III - Corrective Action Sites/Units**

**CAU Number: 99 Rainier/Shoshone**

**Owner: NNSA / UGTA - ERP**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
16-57-001	U-16a Cavity	Underground Test/Detonation Cavity		Tippipah Spring
16-57-002	U-16a.02 Cavity	Underground Test/Detonation Cavity		Tippipah Spring
16-57-003	U-16a.03 Cavity	Underground Test/Detonation Cavity		Tippipah Spring
16-57-004	U-16a.04 Cavity	Underground Test/Detonation Cavity		Tippipah Spring
16-57-005	U-16a.05 Cavity	Underground Test/Detonation Cavity		Tippipah Spring
16-57-006	U-16a.06 Cavity	Underground Test/Detonation Cavity		Tippipah Spring

# Appendix IV

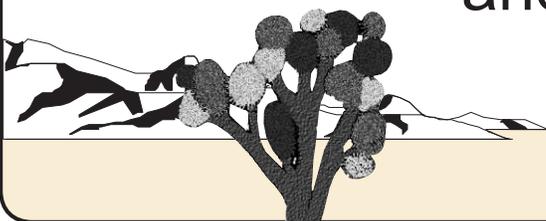
## Closed Corrective Action Units

Revision No.: 22

July 2007



Federal Facility Agreement  
and Consent Order  
(FFACO)



**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 416 Project Shoal Area - Surface**

**Owner: DOE / Offsites - OLM**

**CAU Notice of Completion: 2/13/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
57-06-01	Muckpile	Muckpile	W of CAS 57-57-001	Project Shoal Area
57-09-01	Mud Pit	Mud Pit	E of CAS 57-57-001	Project Shoal Area
57-98-01	Waste Pile/Oil Cans (6)	Housekeeping Waste	Area of ECH-A	Project Shoal Area

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 417 Central Nevada Test Area - Surface**

**Owner: DOE / Offsites - OLM**

**CAU Notice of Completion: 6/27/2002**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is complete.

This CAIP submission supercedes the one dated 08/28/1996.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
58-05-01	Septic System	Leachfield	Support Trailer W of CMP	Central Nevada Test Area
58-05-02	Septic System	Leachfield	Support Trailer E of UC-3	Central Nevada Test Area
58-05-03	Underground Storage Tank	Underground Storage Tank	UC-3 Recording Trailer Park	Central Nevada Test Area
58-05-04	Septic System	Leachfield	UC-4 Support Trailer	Central Nevada Test Area
58-05-05	Septic System	Leachfield	Manhole Covers SE of UC-3	Central Nevada Test Area
58-05-06	Septic System	Leachfield	UC-3 Recording Trailer Park	Central Nevada Test Area
58-07-01	Decon Facility Pit	Decon Pad	W of 58-09-01	Central Nevada Test Area
58-09-01	Central Mud Pit	Mud Pit	E of UC-1	Central Nevada Test Area
58-09-02	Mud Pit	Mud Pit	SW of 58-09-01	Central Nevada Test Area
58-09-03	Mud Pits (5)	Mud Pit	UC-4	Central Nevada Test Area
58-09-04	Mud Pit/Burrow Area	Mud Pit	UC-1 (HTH-1 Well)	Central Nevada Test Area
58-09-05	Mud Pits (3)	Mud Pit	UC-1 Surface GZ	Central Nevada Test Area
58-09-06	Mud Pits (5)	Mud Pit	UC-3	Central Nevada Test Area
58-10-01	Shaker Pad Area	Drill Cuttings Debris	NE of UC-3	Central Nevada Test Area
58-10-02	Shaker Pad Area	Drill Cuttings Debris	N of UC-4	Central Nevada Test Area
58-10-03	Shaker Pad Area	Drill Cuttings Debris	E of UC-1	Central Nevada Test Area
58-10-04	Shaker Pad Area	Drill Cuttings Debris	Drainage S of UC-4	Central Nevada Test Area
58-10-05	Shaker Pad Area	Drill Cuttings Debris	Drainage N and E of UC-4	Central Nevada Test Area
58-10-06	Drilling Mud/Cuttings	Shaker Plant	N of UC-3	Central Nevada Test Area
58-19-01	Scrap and Trash Dump	Waste Disposal Site	W of UC-3 RTP	Central Nevada Test Area

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 417 Central Nevada Test Area - Surface**

**Owner: DOE / Offsites - OLM**

**CAU Notice of Completion: 6/27/2002**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is complete.

This CAIP submission supercedes the one dated 08/28/1996.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
58-25-01	Spill	Oil/Fuel Spills	S of UC-3 Mud Pit E	Central Nevada Test Area
58-35-01	Burn Area	Burn Cage/Pit	W of 58-09-01	Central Nevada Test Area
58-35-02	Burn Area	Burn Cage/Pit	UC-3 Recording Trailer Park	Central Nevada Test Area
58-44-01	Drilling Mud/Grout Piles (2)	Other Spill Site	W of 58-09-01	Central Nevada Test Area
58-44-02	Drilling Mud/Grout Piles (2)	Other Spill Site	W of 58-09-01	Central Nevada Test Area
58-44-03	Drill Mud/Grout Spill Area	Other Spill Site	SE of UC-3	Central Nevada Test Area
58-44-04	Drill Mud/Grout Spill Area	Other Spill Site	SW of UC-3	Central Nevada Test Area
58-44-05	Grout Pile	Other Spill Site	NE of UC-1	Central Nevada Test Area
58-44-06	Grout Pile	Other Spill Site	Approx. 3600 ft S of UC-1	Central Nevada Test Area
58-98-01	Waste Pile (Drums, Filters etc.)	Housekeeping Waste	W of UC-3	Central Nevada Test Area
58-98-02	Waste Pile (Drums, Filters etc.)	Housekeeping Waste	S of UC-3	Central Nevada Test Area
58-98-03	Waste Pile (Drums, Filters etc.)	Housekeeping Waste	Adjacent to 58-09-02	Central Nevada Test Area
58-98-04	Waste Pile (Metal, Cable etc.)	Housekeeping Waste	Adjacent to 58-44-03	Central Nevada Test Area
58-99-01	Protruding Pipes (2)	Underground Storage Tank	SE of UC-3	Central Nevada Test Area

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 1 Area 12 Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 5/12/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-22-03	Buckets (3)	Housekeeping Waste	U-12n.20 PH #1	Rainier Mesa
12-24-06	Battery	Housekeeping Waste	RSM 12 T 18	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 2 Area 12 Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 5/20/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-22-14	Drums (2)	Housekeeping Waste	U-12e.05 #3	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 3 Area 12 Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 8/15/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-22-16	Drums (2)	Housekeeping Waste	Area 12 Batch Plant	Rainier Mesa
12-24-04	Batteries (2)	Housekeeping Waste	UE-12n #3	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 30 Area 12 Rainier Mesa Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 8/26/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-22-02	Drum	Housekeeping Waste	U-12n.10A	Rainier Mesa
12-22-04	Drum	Housekeeping Waste	UN03/U-12n.20 PH #1	Rainier Mesa
12-22-05	Bucket	Housekeeping Waste	U-12n.20 PH #1	Rainier Mesa
12-22-08	Drums (8)	Housekeeping Waste	U-12t.04 CH #1	Rainier Mesa
12-22-09	Drum	Housekeeping Waste	UE-12n #16	Rainier Mesa
12-22-10	Drum; Oil Filter	Housekeeping Waste	U-12e.PS #1	Rainier Mesa
12-22-11	Drum	Housekeeping Waste	RSM 12 P 2	Rainier Mesa
12-22-12	Drum; 2 Buckets	Housekeeping Waste	UE-12p #3 (149)	Rainier Mesa
12-22-34	Gas Can	Housekeeping Waste	U-12n.20 PH #1	Rainier Mesa
12-24-13	Batteries	Housekeeping Waste	Rooster Point	Rainier Mesa
12-24-19	Battery	Housekeeping Waste	T-Tunnel Trailer Park	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 31 Area 12 Base Camp Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 8/12/1996**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-22-17	Drums (2)	Housekeeping Waste	Area 12 Batch Plant	Rainier Mesa
12-22-18	Drum	Housekeeping Waste	Area 12 Camp	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 32 Area 12 E-Tunnel Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 8/26/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-01-03	Water Tank	Aboveground Storage Tank	U-12e Portal	Rainier Mesa
12-01-04	Diesel Oil Tank	Aboveground Storage Tank	U-12e Portal	Rainier Mesa
12-29-01	Grout	Housekeeping Waste	U-12e Portal	Rainier Mesa
12-29-02	Drum	Housekeeping Waste	U-12e Portal	Rainier Mesa
12-29-03	Buckets (15)	Housekeeping Waste	U-12e Portal	Rainier Mesa
12-29-04	Chemicals	Abandoned Chemicals	U-12e Portal	Rainier Mesa
12-29-05	Chemicals	Abandoned Chemicals	U-12e Portal	Rainier Mesa
12-99-06	Gas Cylinder	Housekeeping Waste	U-12e Portal	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 33 Area 12 T-Tunnel Housekeeping**

**Owner: DTRA**

**CAU Notice of Completion: 8/5/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-22-21	Drum	Housekeeping Waste	T-Tunnel Pond #2	Rainier Mesa
12-22-22	Drum	Housekeeping Waste	T-Tunnel Pond #2	Rainier Mesa
12-22-23	Paint Cans	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-24	Drums (5)	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-30	Drums (3)	Housekeeping Waste	J-Tunnel	Rainier Mesa
12-22-31	Drums (2)	Housekeeping Waste	J-Tunnel	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 434 **Area 3 Satellite Vehicle Housekeeping Sites**

**Owner:** DTRA

**CAU Notice of Completion:** 1/29/1997

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-26-01	Lead Doors	Housekeeping Waste	U-3kb	Yucca Flat
03-99-05	Satellite Vehicle, Asbestos	Housekeeping Waste	U-3ky	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 435 Area 16 Tunnel Portal Housekeeping Sites**

**Owner: DTRA**

**CAU Notice of Completion: 5/4/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
16-22-01	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-02	Drums (30)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-03	Drums (15)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-04	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-07	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-08	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-09	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-10	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-11	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-14	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-15	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-16	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-17	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-18	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-19	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-20	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-22	Drums (2)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-23	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-24	Drums (3)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-25	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-26	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-24-01	Battery	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-24-03	Battery	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-24-04	Battery	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-99-02	Explosive Storage Area	Other	16 Tunnel Portal	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 435 Area 16 Tunnel Portal Housekeeping Sites

**Owner:** DTRA

**CAU Notice of Completion:** 5/4/1998

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
16-99-03	Misc. Bldg. Materials	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 436 Area 12 Rainier Mesa N-Tunnel Housekeeping Site

**Owner:** DTRA

**CAU Notice of Completion:** 3/24/1997

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-25-01	Oil Spill	Housekeeping Waste	U-12n.01-04	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 437 Area 12 Drillholes**

**Owner: DTRA**

**CAU Notice of Completion: 12/10/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-30-13	Gas Sampling Pipe	Drillhole	U-12n.06 PS #1	Rainier Mesa
12-30-20	Cellar	Drillhole	U-12t.09 PS #1AA	Rainier Mesa
12-30-22	Casing Stub; Staining	Drillhole	UE-12t #8	Rainier Mesa
12-30-23	Casing Stub; Staining	Drillhole	UE-12p #6	Rainier Mesa
12-31-01	U-12n.10 Vent hole	Vent Hole	U-12n.10 Vent Hole	Rainier Mesa
12-32-01	Cable Hole	Cable Hole	U-12e.14 HFR CH #1	Rainier Mesa
12-32-02	Cable Hole	Cable Hole	U-12n.10A EMP CH	Rainier Mesa
12-32-03	Cable Hole	Cable Hole	U-12n #1 CH	Rainier Mesa
12-32-06	Cable Hole (Radioactive)	Cable Hole	U-12n CH #1	Rainier Mesa
12-32-07	Cable Hole (Radioactive)	Cable Hole	U-12n CH #1	Rainier Mesa
12-32-08	Cable Hole (Radioactive)	Cable Hole	U-12n CH #3	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 438 Area 12 E-Tunnel Mesa Mud Pits**

**Owner: DTRA**

**CAU Notice of Completion: 10/26/1998**

Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-09-02	Mud Pit	Mud Pit	U-12e.18 PS #1V	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 439 Area 12 N-Tunnel Mesa Mud Pits**

**Owner: DTRA**

**CAU Notice of Completion: 10/26/1998**

Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-09-05	Mud Pit	Mud Pit	U-12n	Rainier Mesa
12-09-07	Mud Pit	Mud Pit	U-12n.20 PH #1	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 440 Area 12 T-Tunnel Mesa Mud Pits**

**Owner: DTRA**

**CAU Notice of Completion: 10/26/1998**

Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-09-06	Mud Pit	Mud Pit	U-12t Trailer Park	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 469 Area 12 Drums at N-Tunnel

**Owner:** DTRA

**CAU Notice of Completion:** 5/4/1998

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-22-25	Drums (3)	Housekeeping Waste	N-Tunnel Store Yard	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 470 Area 12 Mud Pit and Soil Staining on Rainier Mesa**

**Owner: DTRA**

**CAU Notice of Completion: 10/26/1998**

Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-30-15	Mud Pit	Mud Pit	UE-12t #5	Rainier Mesa
12-30-19	Soil Staining	Housekeeping Waste	UE-12n #14	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 471 Area 12 Conditional Release Storage Yards**

**Owner: DTRA**

**CAU Notice of Completion: 11/2/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-42-01	Conditional Release Storage Yard	Conditional Release Storage	U-12e	Rainier Mesa
12-42-02	Conditional Release Storage Yard	Conditional Release Storage	U-12n	Rainier Mesa
12-42-03	Conditional Release Storage Yard	Conditional Release Storage	U-12p	Rainier Mesa
12-42-04	Conditional Release Storage Yard	Conditional Release Storage	U-12n	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 472 Area 16 Tanks at 16 Tunnel Portal**

**Owner: DTRA**

**CAU Notice of Completion: 11/24/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
16-01-01	Aboveground Storage Tank	Aboveground Storage Tank	16 Tunnel Portal	Tippipah Spring
16-01-02	Aboveground Storage Tank	Aboveground Storage Tank	16 Tunnel Portal	Tippipah Spring
16-02-01	Underground Storage Tank	Underground Storage Tank	16 Tunnel Portal	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 473 Area 16 Spills at 16 Tunnel Portal**

**Owner: DTRA**

**CAU Notice of Completion: 3/2/1999**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
16-14-01	Transformer; Pad	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-25-01	Oil Spill	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 475 Archived - Area 12 P-Tunnel Muckpile

**Owner:** DTRA

**CAU Notice of Completion:** 8/17/2005

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 476 Area 12 T-Tunnel Muckpile**

**Owner: DTRA**

**CAU Notice of Completion: 6/27/2007**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-06-02	Muckpile	Muckpile	T-Tunnel	Rainier Mesa

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 477 Area 12 N-Tunnel Muckpile

**Owner:** DTRA

**CAU Notice of Completion:** 6/20/2007

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-06-03	Muckpile	Muckpile	N-Tunnel	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 479 Archived - Area 12 Contaminated Storage Bldg. at U-12n CH #1, 23

**Owner:** DTRA

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 480 Area 12 N-Tunnel Ponds**

**Owner: DTRA**

**CAU Notice of Completion: 6/8/2007**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-23-04	Ponds (5), RAD Area	Tunnel Pond	N-Tunnel	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 483 Archived - Area 15 Climax Hoist/U-15a Muckpile

**Owner:** DTRA

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 503 N-Tunnel Compressor/Blower Pad**

**Owner: DTRA**

**CAU Notice of Completion: 12/16/2005**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-25-12	Oil Stained Soil and Concrete	Oil/Fuel Spills	500' NNW of N-Tunnel Portal	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 559 T-Tunnel Compressor/Blower Pad**

**Owner: DTRA**

**CAU Notice of Completion: 12/21/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-25-13	Oil Stained Soil and Concrete	Oil/Fuel Spills	200' W of T-Tunnel Portal	

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 383 Area 12 E-Tunnel Sites**

**Owner: DTRA/DOE - Industrial Sites - ERP**

**CAU Notice of Completion: 3/12/2007**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-06-06	Muckpile	Muckpile	E-Tunnel Portal	Rainier Mesa
12-25-02	Oil Spill	Oil/Fuel Spills	E-Tunnel Portal	Rainier Mesa
12-28-02	Radioactive Material	Tunnel Portal Area	E-Tunnel	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 433 Area 12 E-Tunnel Industrial Waste Water**

**Owner: DTRA/DOE - Industrial Sites - ERP**

**CAU Notice of Completion: 3/19/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-23-03	Evaporation Ponds (3)	Rad Contamination Area	U-12e Portal	Rainier Mesa
12-28-04	Waste Water (Tunnel Effluent)	Tunnel Portal Area	E-Tunnel Portal	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 4000 Archived – No Further Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-02-01	Underground Storage Tanks	Underground Storage Tank	U-2gg PS #1A	Oak Spring
03-23-18	Waste Disposal Site	Waste Disposal Site	U-3ah and U-3at	Yucca Flat
04-02-01	Gas Sampling Tanks (2)	Underground Storage Tank	U-4q	Yucca Flat
04-08-01	Waste Disposal Site	Waste Disposal Site	Orange Road at 4-04 Road	Yucca Flat
11-99-01	Bomb Casing	Buried Ordnance Site	Pu Valley	Plutonium Valley
12-01-06	Aboveground Storage Tank	Aboveground Storage Tank	U-12b Portal	Rainier Mesa
12-01-07	Aboveground Storage Tank	Aboveground Storage Tank	U-12b Portal	Rainier Mesa
12-02-10	UST 12-16-2	Underground Storage Tank	Bldg. 16	Rainier Mesa
12-12-01	Change House Boiler	Boiler	Miners Change House	Rainier Mesa
12-20-01	Injection Well	Injection Well	Machine Shop	Rainier Mesa
16-02-02	Underground Storage Tank	Underground Storage Tank	Area 16 Camp	Tippipah Spring
16-99-05	Gas Line	Other	Area 16 Camp	Tippipah Spring
18-99-01	Military Tank	Other	Little Feller II	Buckboard Mesa
18-99-02	Military Jeeps (2)	Other	Little Feller I	Buckboard Mesa
18-99-04	Military Tank	Other	Little Feller I	Buckboard Mesa
18-99-05	Core in Boxes	Other	U-18a Danny Boy	Buckboard Mesa
18-99-07	Core	Other	U-18d Sulky	Buckboard Mesa
20-20-01	Injection Well	Injection Well	U-20ac	Scrugham Peak
23-02-05	Underground Storage Tank	Underground Storage Tank	Building 129/T-128	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5000 Archived – Archived Corrective Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-09-05	UE-1i Mud Pit (1)	Mud Pit	UE-1i	Yucca Flat
01-09-08	UE-1q Mud Pit (1)	Mud Pit	UE-1q	Yucca Flat
01-10-01	Shaker Plant	Facility	Area 1 Camp	
01-23-01	Debris; Twisted Metal/Concrete	Rad Contamination Area	Apple-2	Yucca Flat
01-42-01	Cond. Release Storage Yd. - East	Conditional Release Storage	Area 1 Camp	Tippipah Spring
01-42-02	Cond. Release Storage Yd. - West	Conditional Release Storage	Area 1 Camp	Tippipah Spring
02-01-02	Drill Collar Casing	Other	Circle Road	Yucca Flat
02-03-01	Sewage Lagoons (2)	Sewage Lagoon	Area 2 Camp	Oak Spring
02-22-02	Drums (239)	Housekeeping Waste	LANL/LLNL	
02-26-01	Lead (Concrete Box w/Lining)	Lead	T-2b	Oak Spring
02-26-07	Gun Turret w/Lead in Barrel	Lead	Bunker 2-300	Oak Spring
02-57-071	U-2ct Cavity	Underground Test/Detonation Cavity		Oak Spring
03-01-01	Aboveground Storage Tank	Aboveground Storage Tank	U-3kb	Yucca Flat
03-20-06	Waste Disposal/CN-C11	Injection Well	Core/ETS Building	Yucca Flat
03-47-01	Vacuum Truck Flushing Pond	Other Ponds/Lagoons	Area 3 Mud Plant	Yucca Flat
03-59-04	WX-6 ETS Building Septic System	Septic System	WX-6 ETS Bldg	
04-26-02	Lead on Instrument Bunker	Lead	Bunker 4-390	Yucca Flat
05-03-01	Septic System	Sewage Lagoon	RWMS	Frenchman Lake
05-18-01	Chemical Storage Bunker	Magazine/Bunker	Triple Point Bunker	Frenchman Lake
05-19-03	Greater Confinement Disposal Brhls	Injection Well	RWMS	
05-20-01	Open Well	Injection Well	DOD Camp, S of CP-6	Yucca Lake
05-22-04	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake
05-22-07	Gas Block	Housekeeping Waste	U-5e SGZ	
06-01-03	Trailer-Mounted Diesel Tank 38061	Aboveground Storage Tank	Upper Monastery at 6-04 Rd	Yucca Lake
06-01-04	AST Tank Farm	Aboveground Storage Tank	Area 6	Yucca Lake

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5000 Archived – Archived Corrective Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-07-02	Decon Pad (Old)	Decon Pad	Building CP6	
06-07-03	Decon Laundry	Decon Pad	Decon Pad	
06-17-01	Concrete Waste Water Catch	Sump (Cellar)	CP-6 Decon Pad	
06-42-01	Cond. Release Storage Yd - East	Conditional Release Storage	Yucca Lake	Yucca Lake
06-42-02	Cond. Release Storage Yd - West	Conditional Release Storage	Yucca Lake	Yucca Lake
06-44-01	Spill	Housekeeping Waste	Warehouse H	Yucca Lake
06-99-06	Sump	Sump (Cellar)	Well 3	Yucca Lake
06-99-07	Sump	Sump (Cellar)	Wells C and C1	Yucca Lake
07-02-02	Underground Storage Tank	Underground Storage Tank	U-7r	Yucca Flat
07-19-01	Waste Disposal Site	Waste Disposal Site	3-05 Road at G Road	Yucca Flat
07-23-01	Contaminated Surface Debris	Waste Disposal Site	Bunker 7-300	Yucca Flat
09-03-01	Mud Pit	Mud Pit	U-9y	Oak Spring
09-20-02	Injection Well	Injection Well	Containment Shop	Yucca Flat
09-21-001-09MG	Disposal Trench	Waste Disposal Trench	E of Area 9 Magazines	Tonopah Test Range
10-23-01	Metal Debris (RAD)	Rad Contamination Area	Scooter	Oak Spring
11-22-05	Drums (3)	Housekeeping Waste	UE-11d GZ	
12-01-08	Aboveground Storage Tanks (2)	Aboveground Storage Tank	B-Tunnel Compressor Pad	Rainier Mesa
12-02-11	UST-P-2	Underground Storage Tank	Bldg. 16	Rainier Mesa
12-06-01	Muckpile	Muckpile	P-Tunnel	Rainier Mesa
12-06-04	Muckpile	Muckpile	G-Tunnel	Rainier Mesa
12-15-02	Disposal Site	Sanitary Landfill	Area 12 Camp	
12-21-01	Waste Disposal Trench	Waste Disposal Trench	Area 12 Camp	Rainier Mesa
12-23-02	Contaminated Storage Building	Rad Contamination Area	U-12n CH #1,2,3	Rainier Mesa
12-23-08	Mud Pit and Cellar	Rad Contamination Area	U-9 ITS W-22	Oak Spring
12-25-05	UST Oil Line Release	Oil/Fuel Spills	Area 12 Fleet Operations	Rainier Mesa

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5000 Archived – Archived Corrective Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-25-07	Spill H920723D452 (from UST 12-16-2)	Oil/Fuel Spills	Bldg. 16	Rainier Mesa
12-26-02	Lead Bricks; Sheets	Lead	I, J, K Tunnels	Rainier Mesa
12-28-03	U-12a Portal Housekeeping Debris	Housekeeping Waste	U-12a Portal	Rainier Mesa
12-28-05	U-12f Tunnel Portal	Tunnel Portal Area	U-12f Tunnel Portal	Rainier Mesa
12-28-06	Tunnel Portal	Tunnel Portal Area	U-12c Portal	Rainier Mesa
12-28-07	Tunnel Portal	Tunnel Portal Area	U-12d Portal	Rainier Mesa
12-28-08	Tunnel Portal	Tunnel Portal Area	U-12b Portal	Rainier Mesa
12-30-16	Manhole for Gas/Air Line	Drillhole	Area 12 Camp	Rainier Mesa
12-30-21	Monitoring Well	Drillhole	UE-12t #6	
12-38-01	P-Tunnel Surface Release Point	Tunnel Pond	P-Tunnel	Rainier Mesa
12-46-01	Bottled Gas Storage	Compressed Gas Cylinders	Building 12-039	
14-37-01	Sump	Sump (Cellar)	UE-14b Wellhead M.P.	Mine Mountain
15-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Climax Hoist	Oak Spring
15-01-04	Cement Cistern	Aboveground Storage Tank	Climax Hoist	Oak Spring
15-09-02	Marble #3 (ME-3) Mud Pit (1)	Mud Pit	Marble #3 (ME-3)	Oak Spring
15-22-05	Drums	Housekeeping Waste	Oak Springs Road	Oak Spring
15-22-26	Gas Can	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-30	Misc. Fuel Cans (Gas & Oil)	Housekeeping Waste	Barricade 8-1c	Oak Spring
15-23-04	Ponds (4)	Rad Contamination Area	Tiny Tot	Oak Spring
15-28-01	Mine Portals	Tunnel Portal Area	Tiny Tot Portals	Oak Spring
15-28-02	Open Shaft	Tunnel Portal Area	8-1c Gate	Oak Spring
15-28-03	Mine Portal	Tunnel Portal Area	RSM C-18	Oak Spring
16-20-01	Injection Well	Injection Well	Equip. MX Facility	Tippipah Spring
16-20-02	Injection Well	Injection Well	Generator Shop	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5000 Archived – Archived Corrective Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
17-99-01	Burn Pit	Burn Cage/Pit	Unknown	Ammonia Tanks
18-01-02	Spill Site	Oil/Fuel Spills	17 Camp Generator Shack	Ammonia Tanks
18-19-01	Waste Disposal Site	Waste Disposal Site	Airport Trailer Park	Buckboard Mesa
18-35-01	Burn Pit/Trenches	Burn Cage/Pit	17 Camp	Buckboard Mesa
18-45-04	U-18a Crater (Danny Boy)	Craters	U-18a Crater	Buckboard Mesa
18-46-01	Gas Cylinders (2)	Housekeeping Waste	Pahute Airstrip	Buckboard Mesa
18-57-001	U-18d Cavity	Underground Test/Detonation Cavity		Buckboard Mesa
18-99-06	Core in Boxes	Other	U-18d Sulky	Buckboard Mesa
18-99-08	Core in Boxes	Other	U-18a Danny Boy	Buckboard Mesa
20-02-01	Underground Storage Tank	Underground Storage Tank	U-20bc Cellar	Silent Butte
20-02-02	Underground Storage Tanks	Underground Storage Tank	U-20bd	Silent Butte
20-19-02	Photochemical Drain	Waste Disposal Site	Area 20 Camp, Trailer 992	Silent Butte
20-20-03	Injection Well	Injection Well	Pahute Mesa Well #1	Silent Butte
20-20-04	Injection Well	Injection Well	UE-20n #1	Scrugham Peak
20-20-05	Injection Well	Injection Well	U-20az PS	Scrugham Peak
20-45-02	U-20k Crater (Palanquin)	Craters	U-20k	Trail Ridge
22-03-02	Sewage Lagoons	Sewage Lagoon	Main Gate (Gate 100)	
22-19-05	Maintenance/Disposal Area	Waste Disposal Site	Airstrip	
22-99-02	Water Fill	Housekeeping Waste	Gate 100	Camp Desert Rock
23-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Building 790	Mercury
23-02-02	Subsurface Piping	Underground Storage Tank	Building 503	Mercury
23-03-01	Sewage Lagoons	Sewage Lagoon	Building 1200	Camp Desert Rock
23-05-03	Leachfield/Sump	Leachfield	Building 540	
23-12-01	Boiler (2)	Boiler	Mercury Cafeteria	Mercury
23-44-01	Fuel Spill	Housekeeping Waste	Bulk Fuel Storage Area	

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5000 Archived – Archived Corrective Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
23-99-02	Burn Pit	Burn Cage/Pit	Mercury Salvage Yard	
23-99-04	Salvage Yard	Other	TR-24	
23-99-05	Fire Equipment Building	Other	Warehouse R; Building 129	Mercury
25-01-10	Aboveground Storage Tank	Aboveground Storage Tank	Building 4838	Jackass Flats
25-01-12	Aboveground Storage Tank	Aboveground Storage Tank	X-Tunnel Portal	Striped Hills
25-01-13	Aboveground Storage Tank	Aboveground Storage Tank	Mine Mountain Road	Topopah Spring
25-03-02	Sewage Lagoon	Sewage Lagoon	Control Center	
25-03-03	Sewage Lagoon	Sewage Lagoon	25 Central Support Area	
25-03-04	Sewage Lagoon (2)	Sewage Lagoon	Engine Test Stand 1	Jackass Flats
25-04-02	Septic Tank/System	Septic Tank	J-5 Trailer	
25-05-02	Leachfield	Leachfield	R-MAD Facility	Skull Mountain
25-05-10	Leachfield	Leachfield	Steam Plant Complex	Jackass Flats
25-05-11	Leachfield	Leachfield	Inactive Service Station	Jackass Flats
25-08-01	Construction Waste Dump	Waste Dump	E-MAD Facility	
25-22-13	Drums	Housekeeping Waste	E-MAD Facility	
25-23-08	Radioactively Contaminated Leachfield and Debris	Rad Contamination Area	Bldg. 3161, Jr. Hot Cell	Skull Mountain
25-23-15	Contaminated Waste Dump #4	Rad Contamination Area	Central Support Area	
25-24-16	Batteries	Housekeeping Waste	E-MAD Facility	
25-30-01	Well Head	Injection Well	Landfill 25-15-03	Skull Mountain
25-34-06	Test Cell A Bunker	Magazine/Bunker	Test Cell A	
25-99-19	Sump or Tank	Sump (Cellar)	Building 3124, TTF	Jackass Flats
26-05-02	Leachfield	Leachfield	Building 2201	Skull Mountain
26-05-06	Leachfield	Leachfield	Building 2105	Skull Mountain
26-05-07	Leachfield	Leachfield	MAD 401	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5000 Archived – Archived Corrective Action Sites**

**Owner: N/A**

**CAU Notice of Completion: N/A**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
26-19-01	Contaminated Waste Dump	Waste Disposal Site	MAD 401	Skull Mountain
26-34-01	Contaminated Waste Bunker	Magazine/Bunker	Pluto Facility	Skull Mountain
27-05-01	Leachfield	Leachfield	Building 5176	Cane Spring
27-05-03	Leachfield	Leachfield	Unknown	Cane Spring
27-26-01	Lead Sheets, Lead Bricks	Lead	Able Compound	
30-35-01	Burn Pit	Burn Cage/Pit	Unknown	Buckboard Mesa
RG-23-001-RGCS	Waste Trenches	Waste Dump	Cactus Spring Ranch	

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 999 Archived – NTS Miscellaneous Sites

**Owner:** N/A

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 1010 Shoshone Peak**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 10/23/2003**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
PRL 454	Weathered Diesel Fuel		Shoshone Peak Microwave Relay Annex Site	Topopah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 144 Area 1 Camp Injection Well

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 1/9/1995

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
01-20-01	Waste Disposal Hole	Injection Well	Area 1 Camp	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 322 Areas 1 & 3 Release Sites and Injection Wells**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/2/2006**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
01-25-01	AST Release	Oil/Fuel Spills	Aggregate/Batch Plant	Tippipah Spring
03-20-05	Injection Wells	Injection Well	Blowout Prev. Shop/PS Pad	Yucca Flat
03-25-03	Mud Plant AST Diesel Release	Oil/Fuel Spills	Area 3 Mud Plant	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 323 Area 2 Pull Test Facility Spill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/24/1996**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-25-01	Hydrocarbon Release Site	Oil/Fuel Spills	Pull Test Facility	Oak Spring
06-25-05	Waste Oil Release	Oil/Fuel Spills	Well 3 Yard	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 324 Archived - Area 3 Mudplant Aboveground Storage Tank Release

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 325 Archived - Area 6 Tank Farm Aboveground Storage Tanks/Spills

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 326 Areas 6 and 27 Release Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 1/3/2003**

Closure Report Rev. 1 approved

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-25-01	CP-1 Heating Oil Release	Oil/Fuel Spills	CP-1	Yucca Lake
06-25-02	UST Release	Oil/Fuel Spills	DAF (Device Assembly Fac)	Yucca Lake
06-25-04	Petroleum Release Site	Oil/Fuel Spills	Area 6 Gasoline Station	Yucca Lake
27-25-01	Petroleum Release - Site Maintenance	Oil/Fuel Spills	Site Maintenance Yard	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 327 Archived - Area 12 Camp Underground Oil Releases

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 328 Archived - Area 18 Airstrip Fuel Release

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 329 Area 22 Desert Rock Airstrip Fuel Spill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 1/25/2002**

Post-Closure Monitoring is complete.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
22-44-01	Fuel Spill	Oil/Fuel Spills	Airstrip	Point of Rocks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 331 Archived - Area 27 Site Maintenance Petroleum Release

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 332 **Area 2 Photograph Development System (Photo Skid)**  
**Owner:** NNSA / Industrial Sites - DP **CAU Notice of Completion:** 7/18/1997  
Submitted as CADD/CR

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-42-03	Wastewater Pit (Photo Lab)	Leachfield	Area 2 Photo Lab/2-07 Rd.	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 333 U-3auS Disposal Site

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 6/27/2001

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-16-01	U-3auS Disposal Site	Construction Waste Landfill	U-3auS	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 334 Archived - Area 3 Blowout Prevention Shop Injection Wells  
**Owner:** NNSA / Industrial Sites - DP **CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 335 Area 6 Injection Well and Drain Pit**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 8/12/2003**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
06-20-01	Drums; Oil Waste; Spill	Housekeeping Waste	Well 3 Yard, Bldg T-850	Yucca Lake
06-20-02	20-inch Cased Hole	Injection Well	Building 6-388	Yucca Lake
06-23-03	Drain Pit	Rad Contamination Area	Well 3 Yard	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 337 Archived - Area 6 Well 3 Yard Drain Pit

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 338 Archived - Area 6 Yucca Lake Storage Yards

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 339 Area 12 Fleet Operations Steam Cleaning Effluent**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 12/18/1997**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-19-01	A12 Fleet Ops Steam Cleaning Efflu.	Waste Disposal Site	Fleet Operations Area	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 34 Area 3 Contaminated Waste Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 6/25/2002**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Submitted as CADD/CR. CR regulatory milestone not established prior to CADD/CR submittal.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-09-06	Mud Disposal Crater	Mud Pit	U-3ag at Mud Plant	Yucca Flat
03-09-07	Mud Pit	Mud Pit	Area 3 Mud Plant	Yucca Flat
03-44-01	Chromium Contamination Spill	Housekeeping Waste	Area 3 Mud Plant	Yucca Flat
03-47-02	Area 3 Mud Plant Pond	Other Ponds/Lagoons	Area 3 Mud Plant	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 340 NTS Pesticide Release Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 6/6/2000**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
15-18-02	Area 15 Quonset Hut, Q15-11 Pesticide Storage	Chemical Storage	EPA Farm	Oak Spring
23-18-03	Area 23 Skid Huts Pesticide Storage	Chemical Storage	Sewage Treatment Plant	Camp Desert Rock
23-21-01	Area 23 Quonset Hut, Q800 Pesticide Release Ditch	Waste Disposal Trench	Quonset Hut 800	Camp Desert Rock

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 343 Areas 1, 3, & 4 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 3/11/2002**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-22-06	Drums (2)	Housekeeping Waste	U-1e	Yucca Flat
01-24-03	Batteries (2)	Housekeeping Waste	5-Story Tower	Yucca Flat
03-14-05	Transformers; Switch Boxes	Housekeeping Waste	Bunker 3-53	Yucca Flat
03-22-06	Drums; Bucket; Can	Housekeeping Waste	U-3Lu	Yucca Lake
03-22-07	Buckets (2)	Housekeeping Waste	U-3jh	Yucca Lake
03-22-10	Drum	Housekeeping Waste	U-3ki	Yucca Flat
03-22-12	Drum	Housekeeping Waste	U-3jL	Yucca Flat
03-22-14	Drums (2)	Housekeeping Waste	U-3jy	Yucca Flat
03-22-24	Drum	Housekeeping Waste	U-3bi	Yucca Flat
03-22-25	Drum	Housekeeping Waste	U-3dk	Yucca Flat
03-22-26	Can	Housekeeping Waste	U-3as	Yucca Flat
03-22-30	Buckets; Cans; Debris	Housekeeping Waste	U-3kz PS 1A	Yucca Flat
03-22-34	Drum	Housekeeping Waste	U-3ay	Yucca Flat
03-22-37	Drum	Housekeeping Waste	U-3bu Crater	Yucca Flat
03-24-08	Battery	Housekeeping Waste	U-3kq	Yucca Flat
03-99-10	Gas Can	Housekeeping Waste	U-3gd	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 344 Areas 4, 7 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 1/16/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-14-01	Transformer	Housekeeping Waste	Bunker 4-61	Yucca Flat
04-22-05	Drum; 2 Batteries	Housekeeping Waste	U-4q	Yucca Flat
04-24-08	Batteries (3)	Housekeeping Waste	U-4q	Yucca Flat
04-24-09	Battery	Housekeeping Waste	U-4au	Yucca Flat
07-22-02	Buckets	Housekeeping Waste	U-7bi	Paiute Ridge
07-22-12	Drum	Housekeeping Waste	U-7ay	Yucca Flat
07-24-02	Batteries	Housekeeping Waste	U-7au	Yucca Flat
07-24-03	Batteries	Housekeeping Waste	Contaminated Materials Storage	Paiute Ridge
07-46-01	Gas Cylinder	Housekeeping Waste	RSM 70-6	Yucca Flat
07-46-02	Gas Cylinder	Housekeeping Waste	UE-7ns	Yucca Flat
07-99-01	Miscellaneous Debris	Housekeeping Waste	Gate 7-1c	Yucca Flat
07-99-06	Vehicle Gas Tank	Housekeeping Waste	U-7g	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 345 Areas 2, 9 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 11/28/2000**

Closure Report Rev. 1 approved

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-14-01	Electrical Park/Transformers; Switch	Housekeeping Waste	Area 2 Camp	Oak Spring
02-22-04	Drum	Housekeeping Waste	U-2bp #2	Oak Spring
02-24-06	Batteries (2)	Housekeeping Waste	U-2bj PS#1A	Oak Spring
09-22-02	Drum	Housekeeping Waste	U-9 ITS X-23	Oak Spring
09-22-03	Drum	Housekeeping Waste	S-9E and T-9C	Yucca Flat
09-22-13	Drum/Unknown Material	Housekeeping Waste	U-9av	Oak Spring
09-22-18	Drum	Housekeeping Waste	U-9bt	Yucca Flat
09-22-19	Drums (3)	Housekeeping Waste	U-9bj	Yucca Flat
09-22-22	Drums (2)	Housekeeping Waste	U-9u	Oak Spring
09-24-04	Batteries	Housekeeping Waste	Water Tank on 9-01 Rd.	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 346 Areas 8, 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/9/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
08-22-04	Drums (2)	Housekeeping Waste	U-8d	Oak Spring
08-22-11	Drums; Buckets	Housekeeping Waste	U-8d	Oak Spring
08-24-02	Battery	Housekeeping Waste	U-8c	Oak Spring
10-14-01	Transformer	Housekeeping Waste	U-10am #5	Oak Spring
10-22-06	Drum (Gas Block)	Housekeeping Waste	U-10s	Oak Spring
10-22-10	Drum (Gas Block)	Housekeeping Waste	U-10aj F	Oak Spring
10-22-12	Drum (Gas Block)	Housekeeping Waste	U-10aj F	Oak Spring
10-22-13	Drum (Gas Block)	Housekeeping Waste	U-10ag	Oak Spring
10-22-16	Drum (Gas Block)	Housekeeping Waste	U-10m	Oak Spring
10-22-22	Drum	Housekeeping Waste	U-10am #3	Oak Spring
10-22-25	Drum	Housekeeping Waste	U-10am #1	Oak Spring
10-22-36	Paint Can	Housekeeping Waste	U-10am #1	Oak Spring
10-22-37	Gas Block	Housekeeping Waste	U-10aj F	Oak Spring
10-24-11	Battery	Housekeeping Waste	U-10am #3	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 347 Areas 5, 11 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 2/2/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-22-01	Drums (2)	Housekeeping Waste	Sugar Bunker	Frenchman Lake
05-22-06	Drum	Housekeeping Waste	Gate 200	Mercury
05-22-13	Drums; Battery	Housekeeping Waste	Old Mercury Highway	Mercury
05-22-15	Drum	Housekeeping Waste	GMX Facility	Frenchman Lake
05-22-17	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-20	Drum	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-22-22	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-23	Drum	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-22-24	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-39	Bucket	Housekeeping Waste	U-5e Well	Frenchman Lake
05-24-06	Battery, Tank, Cistern	Housekeeping Waste	Frenchman Lake at H Rd	Frenchman Lake
05-99-06	Decon Boots; Caustic Lime	Housekeeping Waste	GMX Facility	Frenchman Lake
11-22-01	Drums (5)	Housekeeping Waste	W of Plutonium Valley	Plutonium Valley
11-22-02	Drums (6)	Housekeeping Waste	Aircraft Tail Section	Plutonium Valley
11-22-09	Drum	Housekeeping Waste	Tweezer Facility	Plutonium Valley
11-24-01	Batteries	Housekeeping Waste	Plutonium Valley	Plutonium Valley

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 348 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 2/2/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-22-17	Drums (2)	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-30	Drums	Housekeeping Waste	CP-50	Yucca Lake
06-22-37	Drums (2)	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-40	Gas Can	Housekeeping Waste	Area 6 CP Lagoon	Yucca Lake
06-22-45	Drum	Housekeeping Waste	CP-50	Yucca Lake
06-22-47	Plastic Drum	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-24-04	Batteries (2)	Housekeeping Waste	Hot Park	Yucca Lake
06-24-06	Battery	Housekeeping Waste	U-3Lk	Yucca Lake
06-24-07	Batteries (5)	Housekeeping Waste	Repeater Station	Yucca Lake
06-24-08	Batteries (2)	Housekeeping Waste	Repeater Station	Yucca Lake
06-27-01	Transformer	Housekeeping Waste	CP-50	Yucca Lake
06-99-02	Bottles	Housekeeping Waste	Trailer 13	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 349 Area 12 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 5/5/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-14-01	Transformer	Housekeeping Waste	U-12BR-9	Rainier Mesa
12-14-02	Transformer	Housekeeping Waste	T-Tunnel Pond #4	Rainier Mesa
12-14-03	Transformer	Housekeeping Waste	Lineman Storage Yard	Rainier Mesa
12-22-13	Drum	Housekeeping Waste	U-12g.08 CH #1	Rainier Mesa
12-22-15	Drum	Housekeeping Waste	U-12e.03aa	Rainier Mesa
12-22-19	Drum	Housekeeping Waste	T-Tunnel Pond #3	Rainier Mesa
12-22-27	Drum	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-28	Drum	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-29	Drums (2)	Housekeeping Waste	K-Tunnel	Rainier Mesa
12-22-33	Drum	Housekeeping Waste	U-12f	Rainier Mesa
12-22-37	Drum	Housekeeping Waste	U-12c Portal	Rainier Mesa
12-22-38	Drum	Housekeeping Waste	Building 12-300	Rainier Mesa
12-22-43	Drums (2)	Housekeeping Waste	U-12r	Rainier Mesa
12-24-01	Battery	Housekeeping Waste	U-12b R-9	Rainier Mesa
12-24-05	Battery	Housekeeping Waste	Doe Point	Rainier Mesa
12-24-12	Battery	Housekeeping Waste	U-12e.03aa	Rainier Mesa
12-24-14	Batteries (4)	Housekeeping Waste	U-12g.07 CH #1	Rainier Mesa
12-24-17	Batteries (12)	Housekeeping Waste	J-Tunnel	Rainier Mesa
12-24-18	Batteries	Housekeeping Waste	J-Tunnel	Rainier Mesa
12-24-21	Batteries (2)	Housekeeping Waste	U-12b Portal	Rainier Mesa
12-24-22	Batteries (Dry Cell)	Housekeeping Waste	Rooster Point	Rainier Mesa
12-24-23	Batteries (3)	Housekeeping Waste	R Road	Rainier Mesa
12-24-24	Batteries (2)	Housekeeping Waste	RSM 12 P 4	Rainier Mesa
12-46-02	Gas Cylinder	Housekeeping Waste	Area 12 Fire Station	Rainier Mesa
12-99-02	Fuel Tank	Housekeeping Waste	RSM 12 R 13	Rainier Mesa

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 349 Area 12 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 5/5/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-99-03	Gas Cylinder	Housekeeping Waste	P Road, Shacks	Rainier Mesa
12-99-05	Asbestos Pipe	Housekeeping Waste	Area 12 Camp	Rainier Mesa
12-99-09	Gas Cylinder	Housekeeping Waste	Lineman Storage Yard	Rainier Mesa
12-99-11	Asbestos Pipe	Housekeeping Waste	Area 12 Camp	Rainier Mesa

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 350 Miscellaneous Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 6/20/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-26-01	Lead Shot	Lead	K-Tunnel	Rainier Mesa
15-22-04	Drums (2)	Housekeeping Waste	U-15e	Oak Spring
15-22-06	Drums (10)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-16	Drums (3)	Housekeeping Waste	Climax Mine	Oak Spring
15-22-22	Hydrocarbon Impacted Soils	Housekeeping Waste	RSM 8 K 21	Oak Spring
15-22-29	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-07	Batteries	Housekeeping Waste	Climax Hoist	Oak Spring
15-99-02	Gas Cylinder	Housekeeping Waste	Climax Mine	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 351 Areas 16, 18, 29, 30 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 8/6/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
16-22-28	Drum	Housekeeping Waste	Area 16 Camp	Tippipah Spring
18-22-01	Drums	Housekeeping Waste	RSM 20 A 104	Scrugham Peak
18-22-04	Drums (2)	Housekeeping Waste	Unknown	Buckboard Mesa
18-22-19	Drums (2)	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-01	Batteries (Dry Cell)	Housekeeping Waste	Little Feller II	Buckboard Mesa
18-24-02	Batteries (3)	Housekeeping Waste	Little Feller II	Buckboard Mesa
18-24-04	Batteries (2)	Housekeeping Waste	UE-18r	Scrugham Peak
18-24-05	Batteries (2)	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-24-14	Battery	Housekeeping Waste	Area 17 Camp	Ammonia Tanks
18-24-15	Battery	Housekeeping Waste	U-18d Sulky	Buckboard Mesa
30-22-06	Drum	Housekeeping Waste	RSM 30 C 46	Timber Mountain
30-24-02	Battery	Housekeeping Waste	RSM 30 C 37	Timber Mountain
30-46-01	Gas Cylinders (2)	Housekeeping Waste	RSM 30 C 37	Timber Mountain

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 352 Areas 19, 20 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 6/9/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-14-01	Transformer	Housekeeping Waste	U-19g	Dead Horse Flat
19-22-05	Drums (2)	Housekeeping Waste	Well	Silent Butte
19-22-23	Drum	Housekeeping Waste	Perimeter Fence	Dead Horse Flat
19-22-29	Drum	Housekeeping Waste	Substation/19-02 Road	Dead Horse Flat
19-22-30	Drums	Housekeeping Waste	RSM 19 E 4	Dead Horse Flat
19-24-05	Batteries (2)	Housekeeping Waste	RSM 19 E 4	Dead Horse Flat
19-24-08	Battery	Housekeeping Waste	Area 19 Camp	Silent Butte
19-24-09	Batteries (4)	Housekeeping Waste	Area 19 Camp	Silent Butte
20-14-01	Transformers (2)	Housekeeping Waste	U-20u	Trail Ridge
20-22-06	Drum	Housekeeping Waste	U-20k	Trail Ridge
20-22-17	Drum	Housekeeping Waste	U-20ar	Silent Butte
20-22-18	Drums (4)	Housekeeping Waste	U-20av	Scrugham Peak
20-22-26	Drums (11)	Housekeeping Waste	Area 20 Camp	Silent Butte
20-24-03	Batteries (2)	Housekeeping Waste	RSM 20 K 1	Trail Ridge
20-24-04	Batteries (4)	Housekeeping Waste	U-20k	Trail Ridge
20-24-07	Batteries (2)	Housekeeping Waste	U-20ax Access Road	Silent Butte
20-24-10	Batteries (2)	Housekeeping Waste	Area 20 Camp	Silent Butte
20-24-11	Battery	Housekeeping Waste	U-20ao	Scrugham Peak
20-26-02	Lead Pellets	Housekeeping Waste	U-20av	Scrugham Peak
20-99-01	Steel Pipe/Old Mud Pit	Housekeeping Waste	U-20u	Trail Ridge
20-99-02	PVC Pipes	Housekeeping Waste	U-20ax	Scrugham Peak

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 353 Areas 22, 23 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 2/2/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
22-22-01	Buckets (7)	Housekeeping Waste	Weather Station	Point of Rocks
22-99-03	Ammunition Storage Area	Housekeeping Waste	Camp Desert Rock	Point of Rocks

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 354 Areas 25, 26, 27 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 2/2/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-22-02	Drums (2)	Housekeeping Waste	Test Cell A	Jackass Flats
25-22-03	Drums (35)	Housekeeping Waste	TTF Building	Jackass Flats
25-24-14	Batteries (2)	Housekeeping Waste	X-Tunnel Road	Striped Hills
25-24-17	Batteries (2)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-24-18	Battery	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-27-01	PCB Drums (2)	Housekeeping Waste	Test Cell C	Jackass Flats
25-27-02	Drums	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-15	Highway Flares (fuses)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-99-17	Gas Bottles (4)	Housekeeping Waste	Test Cell A	Jackass Flats
26-99-02	Smoke Pots (4)	Housekeeping Waste	Pluto Facility	Skull Mountain
27-22-01	Drums (5)	Housekeeping Waste	Able Compound Access Road	Cane Spring
27-22-02	Drum; Fuel Can	Housekeeping Waste	EOD Area	Cane Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 355 Area 2 Cellars/Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 12/3/2003**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-37-01	Cellar & Mud Pit	Sump (Cellar)	U-2u	Oak Spring
02-37-03	Cellar & Mud Pit	Sump (Cellar)	U-2ay #1 Crater	Yucca Flat
02-37-04	Cellar & Mud Pit	Sump (Cellar)	U-2ay #2 Crater	Yucca Flat
02-37-05	Cellar & Mud Pit	Sump (Cellar)	U-2ay #3	Yucca Flat
02-37-06	Cellar & Mud Pit	Sump (Cellar)	U-2bc	Oak Spring
02-37-07	Cellar & Mud Pit	Sump (Cellar)	U-2bp-1	Oak Spring
02-37-10	Cellar & Mud Pit	Sump (Cellar)	U-2dc #5	Yucca Flat
02-37-11	Cellar & Mud Pit	Sump (Cellar)	U-2dd-1	Yucca Flat
02-37-12	Cellar & Mud Pit	Sump (Cellar)	U-2dd #3	Yucca Flat
02-37-13	Cellar & Mud Pit	Sump (Cellar)	U-2dd-4	Yucca Flat
02-37-14	Cellar & Mud Pit	Sump (Cellar)	U-2dk	Yucca Flat
02-37-15	Cellar & Mud Pit	Sump (Cellar)	U-2dn	Yucca Flat
02-37-16	Cellar & Mud Pit	Sump (Cellar)	U-2dr	Oak Spring
02-37-17	Cellar	Sump (Cellar)	U-2em	Oak Spring
02-37-18	Cellar & Tanks	Sump (Cellar)	U-2gh	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 356 Mud Pits and Disposal Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 1/23/2003**

Closure Report Rev. 1 approved

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-04-01	Area 3 Change House Septic System	Septic Tank	Change House	Yucca Flat
03-09-01	Mud Pit Spill Over	Mud Pit	U-3Ly	Yucca Flat
03-09-03	Mud Pit	Mud Pit	U-3jv	Yucca Flat
03-09-04	Mud Pit	Mud Pit	U-3gi	Yucca Flat
03-09-05	Mud Pit	Mud Pit	U-3La	Yucca Flat
20-16-01	Landfill	Waste Dump	U-20b	Silent Butte
20-22-21	Drums (2)	Housekeeping Waste	U-20b	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 357 Mud Pits and Waste Dump**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 5/11/2005**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-99-01	Boxes; Pipes	Housekeeping Waste	Building 1-31.2e1	Yucca Flat
04-26-03	Lead Bricks	Lead	T-4 313	Yucca Flat
07-09-02	Mud Pit	Mud Pit	UE-7L	Yucca Flat
07-09-03	Mud Pit	Mud Pit	RadSafe Base Station	Yucca Flat
07-09-04	Mud Pit	Mud Pit	3-05 Road	Yucca Flat
07-09-05	Mud Pit	Mud Pit	U-7n	Yucca Flat
08-09-01	Mud Pit	Mud Pit	U-8d	Oak Spring
08-09-02	Mud Pit	Mud Pit	U-8d	Oak Spring
08-09-03	Mud Pit	Mud Pit	U-8d	Oak Spring
10-09-02	Mud Pit	Mud Pit	U-10as	Oak Spring
10-09-04	Mud Pit	Mud Pit	10-01 Road	Oak Spring
10-09-05	Mud Pit	Mud Pit	U-10v and U-2ey	Oak Spring
10-09-06	Mud Pit; Stains; Material	Mud Pit	U-10am #5	Oak Spring
25-15-01	Waste Dump	Waste Dump	NE of R-MAD Facility	Skull Mountain

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 358 Areas 18, 19, 20 Cellars/Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 2/2/2004**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-99-01	Oil Stained Dirt on Concrete	Oil/Fuel Spills	Building 2-353	Oak Spring
03-22-33	Bucket; Spill; Debris	Housekeeping Waste	U-3mc	Yucca Flat
03-99-04	Spill	Housekeeping Waste	U-3ky	Yucca Flat
12-30-02	Drill Holes	Drillhole	U-12b.R1-9	Rainier Mesa
18-09-01	Mud Pit	Mud Pit	UE-18r	Scrugham Peak
19-09-05	Mud Pit	Mud Pit	UE-19c	
19-09-06	Mud Pit	Mud Pit	U-19av	Silent Butte
19-09-07	Mud Pit	Mud Pit	U-19j	Dead Horse Flat
20-09-05	Mud Pit	Mud Pit	U-20bc	Silent Butte
20-09-08	Mud Spill	Mud Pit	U-20aw	Silent Butte
20-23-02	Postshot Cellar	Sump (Cellar)	U-20ae	Silent Butte
20-23-03	Cellar	Sump (Cellar)	U-20az	Scrugham Peak
20-23-04	Postshot Cellar	Sump (Cellar)	U-20am	Silent Butte
20-23-05	Postshot Cellar	Sump (Cellar)	U-20ab	Silent Butte
20-23-06	Cellar	Sump (Cellar)	U-20ac	Scrugham Peak
20-37-01	Cellar & Mud Pit	Sump (Cellar)	U-20aa	Silent Butte
20-37-05	Cellar	Sump (Cellar)	U-20ak	Scrugham Peak

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 359 Archived - Area 5 U-11e Construction Materials/Lead Bricks

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 36 Areas 8, 10, 16, 18, and 26 Housekeeping Waste Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 5/30/2000**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
08-22-06	Drum	Housekeeping Waste	T-8b	Oak Spring
08-22-10	Buckets (3)	Housekeeping Waste	Area 2 Camp	Oak Spring
08-24-05	Batteries	Housekeeping Waste	T-8C	Oak Spring
08-24-09	Batteries (14)	Housekeeping Waste	T-8b	Oak Spring
08-24-10	Batteries (2)	Housekeeping Waste	U-2gd	Oak Spring
08-99-02	Gas Cylinders	Housekeeping Waste	U-8d	Oak Spring
10-24-08	Battery	Housekeeping Waste	U-10ap #3	Oak Spring
16-24-02	Batteries (2)	Housekeeping Waste	16-02/Midvalley Road	Tippipah Spring
18-22-22	Cans (3)	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-12	Battery	Housekeeping Waste	Area 17 Camp, Gas Station	Ammonia Tanks
18-24-13	Batteries	Housekeeping Waste	17 Camp Elec. Storage	Ammonia Tanks
26-99-03	Smoke Pots (4)	Housekeeping Waste	Building 3126	Skull Mountain

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 360 Archived - Area 12 U-12b R1-9 Dirt Berm

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 363 Archived - Area 20 U-20b Drilling Fluid Landfill

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 364 Area 25 RMAD Landfill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-15-02	Disposal Site	Sanitary Landfill	R-MAD Facility - West Side	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 37 Area 16 Camp Burn Pit**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
16-15-01	Area 16 Disposal Site (Burn Pit)	Sanitary Landfill	Area 16 Camp	Tippipah Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 38 Area 19 Pahute Mesa Road Landfill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
19-15-01	Area 19 Disposal Site	Sanitary Landfill	Pahute Mesa Rd./Dirt Rd.	Silent Butte

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 386 Areas 2-4,7-9,11,12,15,19,20,25 Housekeeping Lead Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 12/30/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-26-09	Lead Bricks (100)	Housekeeping Waste	T-2	Oak Spring
03-26-03	Lead Brick; 3 Tubes Silicon	Housekeeping Waste	Cable Fabrication Bldg.	Yucca Flat
07-26-02	Lead Sheet	Housekeeping Waste	U-7i	Yucca Flat
08-26-02	Lead Shot	Housekeeping Waste	Area 8 Trailer Park	Oak Spring
08-26-03	Lead Strip	Housekeeping Waste	U-2gd	Oak Spring
09-26-02	Lead Sheet	Housekeeping Waste	Bunker 9-800	Oak Spring
11-26-01	Lead	Housekeeping Waste	Pu Valley	Plutonium Valley
12-26-03	Lead Brick	Housekeeping Waste	U-12b Portal	Rainier Mesa
15-26-02	Lead Bricks (3)	Housekeeping Waste	Climax Hoist	Oak Spring
15-26-03	Lead Sheet; Stain	Housekeeping Waste	Climax Hoist	Oak Spring
19-26-02	Lead Brick	Housekeeping Waste	U-19zS	Dead Horse Flat
25-19-01	Lead Bricks; Paraffin	Waste Disposal Site	Test Cell A	Jackass Flats
25-26-02	Lead Bricks (24)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-26-03	Lead Bricks (24)	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-15	Lead Shot	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-23	Lead	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-24	Lead Bricks	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-25	Lead Bricks/Drum	Housekeeping Waste	Engine Test Stand 1	Jackass Flats

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 387 Spill Sites and Releases**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 11/29/2001**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-44-01	U-2gh Drill Site Release	Housekeeping Waste	U-2gh	Yucca Flat
02-99-02	Epoxy Tar Spill	Housekeeping Waste	U-2er	Oak Spring
02-99-03	Epoxy Tar Spills	Housekeeping Waste	U-2fd	Oak Spring
02-99-04	Spill	Housekeeping Waste	U-2bg PS #1A	Oak Spring
02-99-07	Cement Spill	Housekeeping Waste	U-2ey	Oak Spring
02-99-09	Spill	Housekeeping Waste	U-2eL	Yucca Flat
02-99-11	Spill	Housekeeping Waste	Powerline Road	Oak Spring
03-22-22	Bucket; Spill	Housekeeping Waste	U-3ev-1 Shaft	Paiute Ridge
03-22-35	Drum; Spill	Housekeeping Waste	U-3ab	Yucca Flat
03-44-03	Spills	Housekeeping Waste	U-3mk Crater	Paiute Ridge
03-99-01	Spill	Housekeeping Waste	U-3gn	Yucca Flat
03-99-02	Spill	Housekeeping Waste	U-3es	Yucca Flat
03-99-03	Spill	Housekeeping Waste	U-3gn	Yucca Flat
03-99-06	Spill	Housekeeping Waste	U-3kj	Yucca Flat
03-99-07	Spill	Housekeeping Waste	U-3Lf	Yucca Flat
03-99-08	Tar Spill	Housekeeping Waste	U-3gi	Yucca Flat
03-99-09	Spill	Housekeeping Waste	U-3gz	Paiute Ridge
03-99-17	Bottle Spill	Housekeeping Waste	U-3cq	Yucca Flat
03-99-18	Cement Spill	Housekeeping Waste	U-3as	Yucca Flat
04-44-01	Spill	Housekeeping Waste	U-4as	Yucca Flat
04-44-03	U-4t Postshot Hole Release	Housekeeping Waste	U-4t	Yucca Flat
07-99-02	Discolored Area	Housekeeping Waste	UE-7ns	Yucca Flat
07-99-03	Compressed Bottle; Tar Spill	Housekeeping Waste	U-7bg	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 388 Archived - Areas 4, 7 Spill Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 389 Archived - Area 2 Spill Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 39 Area 20 Pahute Lake Landfill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
20-15-02	Area 20 Disposal Site	Sanitary Landfill	Pahute Lake	Scrugham Peak

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 390 Areas 9, 10, and 12 Spill Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 10/27/2005**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-99-03	Wax, Paraffin	Housekeeping Waste	U-9av	Oak Spring
10-99-01	Epoxy Tar Spill	Housekeeping Waste	U-10bf	Oak Spring
10-99-03	Tar Spills	Housekeeping Waste	U-10am #5	Oak Spring
12-25-03	Oil Stains (2); Container	Housekeeping Waste	U-12n.10 Vent Hole	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 391 Archived - Area 10 Spill Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 392 Spill Sites and Construction Materials**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 2/28/2002**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-17-02	Construction Materials/Lead Bricks	Hazardous Waste Site	U-11e	Frenchman Lake
06-17-03	Cement Mud Pit	Other Spill Site	Well 3 Yard	Yucca Lake
06-19-01	Cable Pile; Powder Piles (3)	Waste Disposal Site	Well 3 Road	Yucca Lake
06-44-02	Spill	Housekeeping Waste	CP-1 Helipad	Yucca Lake
06-44-03	Spill	Housekeeping Waste	U-6b	Yucca Lake
06-44-04	Cutting Fluid Discharge	Other Spill Site	Building 6-623	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 393 Archived - Area 12 Spill Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 394 Areas 12, 18, and 29 Spill/Release Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 10/13/2003**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-25-04	UST 12-16-2 Waste Oil Release	Oil/Fuel Spills	Area 12	Rainier Mesa
18-25-01	Oil Spills	Oil/Fuel Spills	17 Camp Gas Station	Ammonia Tanks
18-25-02	Oil Spills	Oil/Fuel Spills	17 Camp	Ammonia Tanks
18-25-03	Oil Spill	Oil/Fuel Spills	17 Camp Generator Shack	Ammonia Tanks
18-25-04	Spill (Diesel Fuel)	Oil/Fuel Spills	Pahute Mesa Air Strip	Buckboard Mesa
29-44-01	Fuel Spill	Oil/Fuel Spills	Transmitter Station	Mine Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 395 Area 19 Spill Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 11/2/2005**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-19-04	Concrete Spill	Housekeeping Waste	U-19bg Borrow Pit	Dead Horse Flat
19-25-03	Oil Spills	Oil/Fuel Spills	RSM 19 P 45	Ammonia Tanks
19-44-02	Fuel Spill	Oil/Fuel Spills	Echo Peak Station	Ammonia Tanks
19-44-04	U-19bk Drill Site Release	Oil/Fuel Spills	19-03 Road	Silent Butte
19-44-05	U-19bh Drill Site Release	Oil/Fuel Spills	U-19bh	Ammonia Tanks
19-99-05	Pile; Unknown Material	Other Spill Site	U-19e PS	Dead Horse Flat
19-99-07	Cement Spill	Other Spill Site	U-19am Trailer Park	Dead Horse Flat
19-99-08	Cement Spill	Other Spill Site	U-19at	Ammonia Tanks
19-99-10	Cement Spill	Other Spill Site	U-19f Trailer Park	Ammonia Tanks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 396 Area 20 Spill Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/17/2004**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
20-25-01	Oil Spills (2)	Oil/Fuel Spills	U-20bc	Silent Butte
20-25-02	Oil Spills	Oil/Fuel Spills	U-20ax	Scrugham Peak
20-25-03	Oil Spill	Oil/Fuel Spills	U-20az	Scrugham Peak
20-99-08	Spill	Oil/Fuel Spills	RSM 20 P 130	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 397 Archived - Areas 22, 23 Spill Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 399 Area 18 Disposal Site**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
18-16-01	Area 18 Disposal Site	Construction Waste Landfill	18-01 Road	Ammonia Tanks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 40 Area 25 Cane Springs Landfill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-15-03	Cane Springs Landfill/Disposal Site	Sanitary Landfill	Area 25 Guard Station 5	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 41 Area 27 Landfill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
27-15-01	Area 27 Disposal Site	Sanitary Landfill	Unknown	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 42 Area 30 Landfill**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
30-15-01	Area 30 Disposal Site	Sanitary Landfill	Unknown	Timber Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 420 Archived - Area 8 Smoky Historic Area Lead Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 421 Archived - Area 12 K Tunnel Area Lead Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 422 Archived - Area 12 I,J,K Tunnel Area Lead Sites

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 43 Area 3 BJJ Disposal Site**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-08-01	BJJ Disposal Site	Waste Dump	U-3mf PS #2A/BJJ	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 44 Area 25 FOC Construction Landfills**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 9/26/1996**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-16-02	FOC Disposal Site	Construction Waste Landfill	Area 25 Camp	Jackass Flats
25-16-04	FOC Disposal Site East	Construction Waste Landfill	Area 25 FOC	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 441 Archived - Area 25 RMAD Waste Dump

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 445 Archived – Area 12 Disposal Site

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 446 Archived - Area 6 Well 3 Yard UST and Piping

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 449 Archived - Area 3 U-3auS Disposal Site

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 462 Archived - Area 4 Lead Site at T-4

**Owner:** NNSA / Industrial Sites - DP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 463 Areas 2, 3, 9, and 25 Housekeeping Waste Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 12/14/1999**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-24-10	Batteries (3)	Housekeeping Waste	U-2eu	Oak Spring
03-22-17	Drum; Bucket	Housekeeping Waste	U-3dg	Yucca Flat
03-22-29	Drum	Housekeeping Waste	U-3La	Yucca Flat
03-22-40	Drums	Housekeeping Waste	U-3mf PS #2A	Yucca Flat
03-22-41	Drums	Housekeeping Waste	U-3cn	Yucca Flat
03-22-44	Drum	Housekeeping Waste	U-3jh	Yucca Lake
03-22-45	Drum	Housekeeping Waste	U-3kv	Yucca Flat
03-24-10	Battery	Housekeeping Waste	U-3mf PS #2A	Yucca Flat
03-24-21	Battery (Broken)	Housekeeping Waste	U-3gg	Yucca Flat
03-46-02	Gas Cylinders	Housekeeping Waste	Cable Fabrication Bldg.	Yucca Flat
09-14-01	Transformers	Housekeeping Waste	Bunker 9-800	Oak Spring
25-26-10	Lead Bricks	Housekeeping Waste	Building 3124	Jackass Flats
25-26-26	Lead Bricks	Housekeeping Waste	Building 3124	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 530 LANL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-09-01	U-1f Mud Pit (2)	Mud Pit	U-1f	Yucca Flat
01-09-02	U-1e Mud Pit (2)	Mud Pit	U-1e	Yucca Flat
01-09-03	U-1d Mud Pit (2)	Mud Pit	U-1d Crater Area	Yucca Flat
02-09-02	U-2ct Mud Pit (1)	Mud Pit	U-2ct	Yucca Flat
03-09-08	U-3Lf Mud Pit (2)	Mud Pit	U-3Lf	Yucca Flat
03-09-09	U-3mh Mud Pit (2)	Mud Pit	U-3mh Crater Area	Paiute Ridge
03-09-10	U-3mr Mud Pit (2)	Mud Pit	U-3mr	Yucca Flat
03-09-11	U-3Lb Mud Pit (2)	Mud Pit	U-3Lb Crater Area	Yucca Flat
03-09-12	U-3Lp Mud Pit (2)	Mud Pit	U-3Lp Crater Area	Yucca Flat
03-09-13	U-3ko Mud Pit (2)	Mud Pit	U-3ko	Yucca Flat
03-09-14	U-3Lx Mud Pit (2)	Mud Pit	U-3Lx	Yucca Flat
03-09-15	U-3kL Mud Pit (2)	Mud Pit	U-3kL	Yucca Flat
03-09-16	U-3mt Mud Pit (2)	Mud Pit	U-3mt Crater Area	Yucca Flat
03-09-17	U-3hc Mud Pit (2)	Mud Pit	U-3hc	Yucca Flat
03-09-18	U-3ke Mud Pit (2)	Mud Pit	U-3ke	Yucca Flat
03-09-19	U-3mk Mud Pit (2)	Mud Pit	U-3mk Crater Area	Paiute Ridge
03-09-20	U-3mu Mud Pit (2)	Mud Pit	U-3mu	Paiute Ridge
03-09-21	U-3gv Mud Pit (2)	Mud Pit	U-3gv	Yucca Flat
03-09-22	U-3ka Mud Pit (2)	Mud Pit	U-3ka	Yucca Flat
03-09-23	U-3gy Mud Pit (1)	Mud Pit	U-3gy	Paiute Ridge
03-09-24	U-3mq Mud Pit (2)	Mud Pit	U-3mq	Yucca Flat
04-09-01	U-4i Mud Pit (2)	Mud Pit	U-4i Crater Area	Yucca Flat
04-09-02	U-4o Mud Pit (2)	Mud Pit	U-4o	Yucca Flat
04-09-03	U-4r Mud Pit (2)	Mud Pit	U-4r Crater Area	Yucca Flat
04-09-04	U-4s Mud Pit (1)	Mud Pit	U-4s Crater Area	Yucca Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 530 LANL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-09-02	U-6f Mud Pit (2)	Mud Pit	U-6f	Yucca Lake
07-09-06	U-7bg Mud Pit (2)	Mud Pit	U-7bg Crater Area	Yucca Flat
07-09-07	U-7an Mud Pit (2)	Mud Pit	U-7an Crater Area	Yucca Flat
07-09-08	U-7br Mud Pit (2)	Mud Pit	U-7br Crater Area	Yucca Flat
07-09-09	U-7ay Mud Pit (2)	Mud Pit	U-7ay Crater Area	Yucca Flat
07-09-10	U-7aw Mud Pit (2)	Mud Pit	U-7aw	Yucca Flat
07-09-11	U-7by Mud Pit (2)	Mud Pit	U-7by Crater Area	Yucca Flat
07-09-12	U-7be Mud Pit (2)	Mud Pit	U-7be Crater Area	Yucca Flat
07-09-13	U-7bz Mud Pit (2)	Mud Pit	U-7bz	Yucca Flat
07-09-14	U-7bc Mud Pit (2)	Mud Pit	U-7bc	Yucca Flat
07-09-15	U-7cc Mud Pit (2)	Mud Pit	U-7cc	Yucca Flat
07-09-16	U-7bf Mud Pit (2)	Mud Pit	U-7bf	Yucca Flat
07-09-17	U-7ag Mud Pit (2)	Mud Pit	U-7ag Crater Area	Yucca Flat
07-09-18	U-7ap Mud Pit (1)	Mud Pit	U-7ap Crater Area	Yucca Flat
07-09-19	U-7bx Mud Pit (2)	Mud Pit	U-7bg Crater Area	Yucca Flat
07-09-20	U-7bh Mud Pit (2)	Mud Pit	U-7bh Crater Area	Yucca Flat
07-09-21	U-7bt Mud Pit (2)	Mud Pit	U-7bt	Yucca Flat
07-09-22	U-7bw Mud Pit (3)	Mud Pit	U-7bw	Yucca Flat
19-09-08	U-19af Mud Pit (2)	Mud Pit	U-19af Crater Area	Ammonia Tanks
19-09-09	U-19ab PS #1A Covered Mud Pit (1)	Mud Pit	U-19ab PS #1A	Dead Horse Flat
19-09-10	U-19ak Mud Pit (2)	Mud Pit	U-19ak Crater Area	Dead Horse Flat
19-09-11	U-19L Mud Pit (2)	Mud Pit	U-19L Crater Area	Dead Horse Flat
19-09-12	U-19q Mud Pit (1)	Mud Pit	U-19q	Dead Horse Flat
19-09-13	U-19x Mud Pit (1)	Mud Pit	U-19x Crater Area	Ammonia Tanks
19-09-14	U-19bi Mud Pit (1)	Mud Pit	U-19i	Dead Horse Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 530 LANL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-09-15	U-19bf Mud Pit (2)	Mud Pit	U-19bf	Dead Horse Flat
19-09-16	U-19am Mud Pit (2)	Mud Pit	U-19am	Dead Horse Flat
19-09-17	U-19bj Mud Pit (1)	Mud Pit	U-19bj	Dead Horse Flat
19-09-18	U-19ba Mud Pit (2)	Mud Pit	U-19ba Crater Area	Dead Horse Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 531 LANL Postshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-09-25	U-3Lc PS #1A Covered Mud Pit (1)	Mud Pit	U-3Lc PS #1A	Yucca Lake
03-09-26	U-3kq PS #1A Covered Mud Pit (1)	Mud Pit	U-3kg PS #1A	Yucca Flat
03-09-27	U-3mh PS #1A Covered Mud Pit (1)	Mud Pit	U-3mh PS #1A	Paiute Ridge
03-09-28	U-3kt PS #1D Covered Mud Pit (1)	Mud Pit	U-3kt PS #1D	Yucca Flat
04-09-05	U-4ak PS #2A Covered Mud Pit (1)	Mud Pit	U-4ak PS #2A	Yucca Flat
04-09-06	U-4u PS #1A Covered Mud Pit (1)	Mud Pit	U-4u PS #1A	Yucca Flat
07-09-23	U-7j PS #2D Covered Mud Pit (1)	Mud Pit	U-7j PS #2D	Yucca Flat
07-09-24	U-7j PS #1D Covered Mud Pit (1)	Mud Pit	U-7j PS #1D	Yucca Flat
07-09-25	U-7i PS #2D Covered Mud Pit (1)	Mud Pit	U-7i PS #2D	Yucca Flat
19-09-19	U-19x PS #1D Mud Pit (1)	Mud Pit	U-19x PS #1D	Ammonia Tanks
19-09-20	U-19ay PS #1A Covered Mud Pit (1)	Mud Pit	U-19ay PS #1A	Dead Horse Flat
20-09-11	U-20a PPS #1D Mud Pit (2)	Mud Pit	U-20a PPS #1D	Scrugham Peak

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 532 LLNL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-09-03	U-2dc #4 PS #1A Covered Mud Pit (1)	Mud Pit	U-2dc #4 PS #1A	Yucca Flat
02-09-04	U-2ec Mud Pit (1)	Mud Pit	U-2ec Crater Area	Oak Spring
02-09-05	U-2dc #1 Mud Pit (1)	Mud Pit	U-2dc #1	Yucca Flat
02-09-06	U-2dc #2 Mud Pit (1)	Mud Pit	U-2dc #2 Crater Area	Yucca Flat
02-09-07	U-2dp Mud Pit (2)	Mud Pit	U-2dp Crater Area	Yucca Flat
02-09-08	U-2dm Mud Pit (1)	Mud Pit	U-2dm	Yucca Flat
02-09-09	U-2az #2 Mud Pit (2)	Mud Pit	U-2az #2	Yucca Flat
02-09-10	U-2cj Mud Pit (1)	Mud Pit	U-2cj	Rainier Mesa
02-09-11	U-2gi Mud Pit (1)	Mud Pit	U-2gi	Oak Spring
02-09-12	U-2gd Mud Pit (1)	Mud Pit	U-2gd	Oak Spring
02-09-13	U-2fh Mud Pit (1)	Mud Pit	U-2fh	Yucca Flat
02-09-14	U-2az #3 Mud Pit (2)	Mud Pit	U-2az #3	Yucca Flat
02-09-15	U-2do Mud Pit (1)	Mud Pit	U-2do	Yucca Flat
02-09-16	U-2ds Mud Pit (1)	Mud Pit	U-2ds	Yucca Flat
02-09-17	U-2gc Mud Pit (1)	Mud Pit	U-2gc	Oak Spring
02-09-18	U-2ez Mud Pit (1)	Mud Pit	U-2ez	Yucca Flat
02-09-19	U-2bp #2 Zero Station Mud Pit (1)	Mud Pit	U-2bp #2 Zero Station	Oak Spring
02-09-20	U-2bp #1 Zero Station Mud Pit (2)	Mud Pit	U-2bp #1 Zero Station	Oak Spring
02-09-21	U-2gk Mud Pit (1)	Mud Pit	U-2gk	Yucca Flat
02-09-22	U-2ea Mud Pit (2)	Mud Pit	U-2ea	Oak Spring
02-09-23	U-2cw Mud Pit (1)	Mud Pit	U-2cw	Oak Spring
02-09-24	U-2dd #1 Mud Pit (2)	Mud Pit	U-2dd #1 Crater Area	Yucca Flat
02-09-25	U-2fg Mud Pit (1)	Mud Pit	U-2fg	Oak Spring
02-09-26	U-2cv Mud Pit (1)	Mud Pit	U-2cv	Oak Spring
04-09-07	U-4ag Mud Pit (1)	Mud Pit	U-4ag	Yucca Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 532 LLNL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-09-08	U-4ad Mud Pit (1)	Mud Pit	U-4ad	Yucca Flat
04-09-10	U-4ap Mud Pit (1)	Mud Pit	U-4ap	Yucca Flat
04-09-12	U-4ae Mud Pit (1)	Mud Pit	U-4ae	Yucca Flat
04-09-13	U-4aq Mud Pit (1)	Mud Pit	U-4aq	Yucca Flat
05-09-01	U-5e Mud Pit (1)	Mud Pit	U-5e Crater Area	Frenchman Lake
06-09-03	U-6e Mud Pit (2)	Mud Pit	U-6e Crater Area	Yucca Lake
07-09-26	U-7ar Mud Pit (2)	Mud Pit	U-7ar	Yucca Flat
08-09-04	UE-8f Mud Pit (1)	Mud Pit	UE-8f	Oak Spring
09-09-01	U-9 ITS V-26 Mud Pit (2)	Mud Pit	U-9 ITS V-26 Crater Area	Oak Spring
09-09-02	U-9 ITS X-24 Mud Pit (2)	Mud Pit	U-9 ITS X-24	Oak Spring
09-09-03	U-9 ITS Z-26 Mud Pit (2)	Mud Pit	U-9 ITS Z-26	Oak Spring
09-09-04	U-9W-24.5 Mud Pit (2)	Mud Pit	U-9 W-24.5	Oak Spring
09-09-05	U-9 ITS AA-25 Mud Pit (2)	Mud Pit	U-9 ITS AA-25	Oak Spring
09-09-06	U-9ch Mud Pit (1)	Mud Pit	U-9ch Crater Area	Yucca Flat
09-09-07	U-9 ITS XY-31 Mud Pit (2)	Mud Pit	U-9 ITS XY-31	Oak Spring
09-09-08	U-9yz-26 Mud Pit (2)	Mud Pit	U-9yx-26	Oak Spring
09-09-09	U-9sS Mud Pit (2)	Mud Pit	U-9sS Crater Area	Oak Spring
09-09-10	U-9 ITS S-25 Mud Pit (2)	Mud Pit	U-9 ITS S-25	Oak Spring
09-09-11	U-9bi #2 Zero Station Mud Pit (2)	Mud Pit	U-9bi #2 Zero Station Crater Area	Yucca Flat
09-09-12	U-9cm Mud Pit (2)	Mud Pit	U-9cm	Yucca Flat
09-09-13	U-9 ITS X-27 Mud Pit (2)	Mud Pit	U-9 ITS X-27	Oak Spring
09-09-14	U-9 ITS U-24 Mud Pit (2)	Mud Pit	U-9 ITS U-24	Oak Spring
09-09-15	U-9 ITS X-22 Mud Pit (2)	Mud Pit	U-9 ITS X-22	Oak Spring
09-09-16	U-9 ITS Z-21 Mud Pit (2)	Mud Pit	U-9 ITS Z-21	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 532 LLNL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-09-17	U-9 ITS W-21 Mud Pit (2)	Mud Pit	U-9 ITS W-21 Crater Area	Oak Spring
09-09-18	U-9bz Mud Pit (1)	Mud Pit	U-9bz	Oak Spring
09-09-19	U-9 ITS X-28 Mud Pit (2)	Mud Pit	U-9 ITS X-28	Oak Spring
09-09-20	U-9 ITS Z-24 Mud Pit (2)	Mud Pit	U-9 ITS Z-24	Oak Spring
09-09-21	U-9co Mud Pit (1)	Mud Pit	U-9co Crater Area	Oak Spring
09-09-22	U-9cp Mud Pit (1)	Mud Pit	U-9cp Crater Area	Oak Spring
09-09-23	U-9 ITS Y-30 Mud Pit (2)	Mud Pit	U-9 ITS Y-30	Oak Spring
10-09-07	U-10an Mud Pit (2)	Mud Pit	U-10an Crater Area	Oak Spring
10-09-08	U-10bg Mud Pit (1)	Mud Pit	U-10bg	Oak Spring
10-09-09	U-10ca Mud Pit (1)	Mud Pit	U-10ca Crater Area	Oak Spring
10-09-11	U-10bb Mud Pit (1)	Mud Pit	U-10bb Crater Area	Oak Spring
10-09-12	U-10d Mud Pit (2)	Mud Pit	U-10d	Oak Spring
10-09-26	U-10aj Mud Pit (1)	Mud Pit	U-10aj	
19-09-21	U-19ac Mud Pit (2)	Mud Pit	U-19ac Crater Area	Dead Horse Flat
19-09-22	U-19q Mud Pit (2)	Mud Pit	U-19q Crater Area	Dead Horse Flat
19-09-23	U-19ai Mud Pit (1)	Mud Pit	U-19ai Crater Area	Dead Horse Flat
19-09-24	U-19t Mud Pit (2)	Mud Pit	U-19t Crater Area	Dead Horse Flat
19-09-25	U-19e Mud Pit (1)	Mud Pit	U-19e Crater Area	Dead Horse Flat
20-09-12	U-20ah Mud Pit (1)	Mud Pit	U-20ah Crater Area	Silent Butte
20-09-13	U-20ar Mud Pit (1)	Mud Pit	U-20ar Crater Area	Silent Butte
20-09-14	U-20e Mud Pit (1)	Mud Pit	U-20e Crater Area	Silent Butte
20-09-15	U-20au Mud Pit (1)	Mud Pit	U-20au	Silent Butte
20-09-16	U-20ag Mud Pit (2)	Mud Pit	U-20ag Crater Area	Scrugham Peak
20-09-17	U-20af Mud Pit (2)	Mud Pit	U-20af Crater Area	Silent Butte
20-09-18	U-20g Mud Pit (1)	Mud Pit	U-20g Crater Area	Silent Butte

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 532 LLNL Preshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-09-19	U-20ba Mud Pit (1)	Mud Pit	U-20ba	Thirsty Canyon
20-09-20	U-20n Mud Pit (1)	Mud Pit	U-20n Crater Area	Scrugham Peak
20-09-21	U-20c Mud Pit (2)	Mud Pit	U-20c Crater Area	Scrugham Peak
20-09-22	U-20v Mud Pit (1)	Mud Pit	U-20v Crater Area	Trail Ridge

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 533 LLNL Postshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-09-27	U-2e PS #1A Mud Pit (1)	Mud Pit	U-2e PS #1A	Oak Spring
02-09-28	U-2bq #1 PS #1A Mud Pit (1)	Mud Pit	U-2bq #1 PS #1A	Oak Spring
02-09-29	U-2bq #2 PS #1A Mud Pit (1)	Mud Pit	U-2bq #2 PS #1A	Oak Spring
02-09-30	U-2dp PS #1A Mud Pit (1)	Mud Pit	U-2dp PS #1A Mud Pit (1)	Yucca Flat
02-09-31	U-2f PS #1 Mud Pit (1)	Mud Pit	U-2f Crater Area	Oak Spring
02-09-32	U-2ce PS #1A Mud Pit (1)	Mud Pit	U-2ce PS #1A	Rainier Mesa
02-09-33	U-2er PS #1A Covered Mud Pit (1)	Mud Pit	U-2er PS #1A	Oak Spring
02-09-34	U-2gg PS #2A Mud Pit (1)	Mud Pit	U-2gg PS #2A	Oak Spring
02-09-35	U-2fc PS #1A Mud Pit (1)	Mud Pit	U-2fc Crater Area	Oak Spring
02-09-36	U-2gf PS #1A Mud Pit (1)	Mud Pit	U-2gf Crater Area	Oak Spring
02-09-37	U-2q PS #1A Mud Pit (1)	Mud Pit	U-2q PS #1A	Yucca Flat
02-09-38	U-2ew PS #2A Mud Pit (1)	Mud Pit	U-2ew PS #2A	Yucca Flat
02-09-39	U-2ew PS #1A Mud Pit (1)	Mud Pit	U-2ew PS #1A	Yucca Flat
02-09-40	U-2ge PS #1A Mud Pit (1)	Mud Pit	U-2ge PS #1A	Oak Spring
02-09-41	U-2ev PS #1A Mud Pit (1)	Mud Pit	U-2ev Crater Area	Oak Spring
02-09-42	U-2L PS #5 Mud Pit (1)	Mud Pit	U-2L PS #5	Oak Spring
02-09-43	U-2dc #6 PS #1A Mud Pit (1)	Mud Pit	U-2dc #6 PS #1A	Yucca Flat
02-09-50	U-2bz PS #1A Mud Pit (1)	Mud Pit	U-2bz PS #1A	
02-09-51	U-2bp #1 Zero Station Covered Mud Pit (1)	Mud Pit	U-2bp #1 Zero Station	
02-09-52	U-2dc #1 PS #1A Mud Pit (1)	Mud Pit	U-2dc #1 PS #1A	
02-09-53	U-2bg PS #1A Mud Pit (1)	Mud Pit	U-2bg PS #1A	
02-09-54	U-2be PS #1A Mud Pit (1)	Mud Pit	U-2be PS #1A	
02-09-55	U-2L Mud Pit (1)	Mud Pit	U-2L	
02-09-56	U-2L PS #3 Mud Pit (1)	Mud Pit	U-2L PS #3	

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 533 LLNL Postshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-09-14	U-4av PS #1A Covered Mud Pit (1)	Mud Pit	U-4av PS #1A	Yucca Flat
04-09-15	U-4am PS #1A Covered Mud Pit (1)	Mud Pit	U-4am PS #1A	Yucca Flat
09-09-24	U-9 ITS V-24 PS #1A Mud Pit (2)	Mud Pit	U-9 ITS V-24 PS #1A	Oak Spring
09-09-25	U-9 ITS V-27 PS #1A Mud Pit (1)	Mud Pit	U-9 ITS V-27 Crater Area	Oak Spring
09-09-26	U-9cv PS #1A Covered Mud Pit (1)	Mud Pit	U-9cv PS #1A	Yucca Flat
09-09-27	U-9yz-26 PS #1A Mud Pit (1)	Mud Pit	U-9yz-26 PS #1A	Oak Spring
09-09-28	U-9bn PS #2A Mud Pit (1)	Mud Pit	U-9bn PS #2A	Yucca Flat
09-09-29	U-9 ITS X-28 PS #1A Mud Pit (1)	Mud Pit	U-9 ITS X-28 Crater Area	Oak Spring
09-09-30	U-9k PS #1 Mud Pit (1)	Mud Pit	U-9k Crater Area	Yucca Flat
09-09-31	U-9cr PS #1A Covered Mud Pit (1)	Mud Pit	U-9cr PS #1A	Oak Spring
09-09-32	U-9W-24.5 PS #1A Mud Pit (1)	Mud Pit	U-9W-24.5 PS #1A	Oak Spring
09-09-33	U-9cL PS #1A Mud Pit (1)	Mud Pit	U-9cl PS #1A	Yucca Flat
09-09-34	U-9bu PS #1A Mud Pit (1)	Mud Pit	U-9bu PS #1A	Yucca Flat
09-09-35	U-9bi #1 PS #1A Mud Pit (1)	Mud Pit	U-9bi #1 PS #1A	Yucca Flat
09-09-36	U-9cn PS #1A Mud Pit (1)	Mud Pit	U-9cn Crater Area	Yucca Flat
09-09-42	U-9bm PS #1A Mud Pit (1)	Mud Pit	U-9bm PS #1A	
09-09-43	U-9bi #2 PS #1A Mud Pit (1)	Mud Pit	U-9bi #2 PS #1A	
09-09-44	U-9c PS #2 Mud Pit (1)	Mud Pit	U-9c	
10-09-13	U-10aq PS #1A Mud Pit (1)	Mud Pit	U-10aq PS #1A	Oak Spring
10-09-14	U-10bg PS #1A Covered Mud Pit (1)	Mud Pit	U-10bg PS #1A	Oak Spring
10-09-15	U-10ap #1 PS #1A Mud Pit (1)	Mud Pit	U-10ap #1 PS #1A	Oak Spring
10-09-16	U-10as PS #1A Mud Pit (1)	Mud Pit	U-10as PS #1A	Oak Spring
10-09-17	U-10a PS #2V Mud Pit (1)	Mud Pit	U-10a Crater Area	Oak Spring
10-09-18	U-10ap #3 PS #1A Mud Pit (1)	Mud Pit	U-10ap #3 PS #1A	Oak Spring
10-09-19	U-10ax PS #1A Mud Pit (1)	Mud Pit	U-10ax PS #1A	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 533 LLNL Postshot Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-09-20	U-10ag PS #1A Mud Pit (1)	Mud Pit	U-10ag PS #1A	Oak Spring
10-09-21	U-10ar PS #1A Covered Mud Pit (1)	Mud Pit	U-10ar PS #1A	Oak Spring
19-09-26	U-19ai PS #1A Covered Mud Pit (1)	Mud Pit	U-19ai PS #1A	Dead Horse Flat
19-09-27	U-19zS PS #1D Covered Mud Pit (1)	Mud Pit	U-19zS PS #1D	Dead Horse Flat
19-09-28	U-19ac PS #1A Covered Mud Pit (1)	Mud Pit	U-19ac PS #1A	Dead Horse Flat
20-09-23	U-20i PS #1D Mud Pit (2)	Mud Pit	U-20i PS #1D	Silent Butte
20-09-24	U-20bb PS #1A Covered Mud Pit (1)	Mud Pit	U-20bb PS #1A	Scrugham Peak
20-09-25	U-20c PS #1D Mud Pit (1)	Mud Pit	U-20c PS #1D	Scrugham Peak
20-09-26	U-20bd PS #1A Mud Pit (1)	Mud Pit	U-20bd PS #1A	Silent Butte
20-09-27	U-20aj PS #1A Mud Pit (1)	Mud Pit	U-20aj PS #1A	Silent Butte
20-09-28	U-20an PS #1A Covered Mud Pit (1)	Mud Pit	U-20an PS #1A	Silent Butte
20-09-29	U-20v PS #1D Mud Pit (1)	Mud Pit	U-20v Crater Area	Trail Ridge
20-09-30	U-20ay PS #1A Covered Mud Pit (1)	Mud Pit	U-20ay PS #1A	Silent Butte
20-09-31	U-20aq PS #1A Covered Mud Pit (1)	Mud Pit	U-20aq PS #1A	Trail Ridge
20-09-32	U-20aL PS #1A Covered Mud Pit (1)	Mud Pit	U-20aL PS #1A	Silent Butte
20-09-33	U-20d PS #1D Mud Pit (1)	Mud Pit	U-20d PS #1D	Scrugham Peak
20-09-34	U-20e PS #1D Mud Pit (1)	Mud Pit	U-20e PS #1D	Silent Butte
20-09-35	U-20ax PPS #1A Mud Pit (1)	Mud Pit	U-20ax PPS #1A	Scrugham Peak
20-09-36	U-20av PS #1A Mud Pit (1)	Mud Pit	U-20av PS #1A	Scrugham Peak
20-09-37	U-20n PS #1D Covered Mud Pit (1)	Mud Pit	U-20n PS #1D	Scrugham Peak

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 534 Exploratory/Instrumentation Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-09-06	UE-1r Mud Pit (1)	Mud Pit	UE-1r	Yucca Flat
01-09-07	UE-1p Eleana Mud Pit (1)	Mud Pit	UE-1p Eleana	Yucca Flat
01-09-09	UE-1L Mud Pits (2)	Mud Pit	UE-1L	Tippipah Spring
02-09-44	UE-2co Mud Pit (1)	Mud Pit	U-2co Crater Area	Tippipah Spring
02-09-45	UE-2eu Mud Pit (1)	Mud Pit	U-2eu Crater Area	Oak Spring
02-09-46	UE-2ad Mud Pit (1)	Mud Pit	UE-2ad	Oak Spring
02-09-47	UE-2ac Mud Pit (1)	Mud Pit	UE-2ac	Oak Spring
03-09-30	UE-3Lj/Inst. Mud Pit (1)	Mud Pit	UE-3Lj/Inst.	Yucca Flat
04-09-16	UE-4af Mud Pit (1)	Mud Pit	UE-4af	Yucca Flat
04-09-17	UE-4aa Mud Pit (1)	Mud Pit	UE-4aa	Yucca Flat
04-09-18	UE-4ai Mud Pit (1)	Mud Pit	UE-4ai	Yucca Flat
04-09-19	U-4ao CDS Test Mud Pit (1)	Mud Pit	U-4ao CDS Tes	Yucca Flat
04-09-20	U-4t PS #2A Mud Pit (1)	Mud Pit	U-4t PS #2A	
04-09-21	UE-4ac Mud Pit (1)	Mud Pit	UE-4ac	
05-09-02	RNM #1 Mud Pit (1)	Mud Pit	RNM #1	Frenchman Lake
05-09-03	UE-5n Mud Pits (2)	Mud Pit	UE-5n	Frenchman Lake
05-09-04	RNM #2s Mud Pit (2)	Mud Pit	RNM #2s	Frenchman Lake
06-09-04	UE-6e Mud Pit (2)	Mud Pit	UE-6e	Yucca Lake
07-09-27	UE-7k Mud Pit (1)	Mud Pit	UE-7k	Yucca Flat
08-09-05	UE-8o Mud Pit (1)	Mud Pit	UE-8o	Oak Spring
08-09-06	UE-8e #2 Mud Pit (1)	Mud Pit	UE-8e #2	Oak Spring
09-09-37	U-9 ITS UE-S-17 Mud Pit (1)	Mud Pit	U-9 ITS UE-S-17	Oak Spring
09-09-38	U-9 ITS UE-U-22 Mud Pit (1)	Mud Pit	U-9 ITS UE-U-22	Oak Spring
09-09-39	U-9 ITS UE-U-29 #2 Mud Pit (1)	Mud Pit	U-9 ITS T28 Crater Area	Oak Spring
09-09-40	U-9cu Grout Test Mud Pit (1)	Mud Pit	U-9cu Grout Test	Oak Spring

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**CAU Number: 534 Exploratory/Instrumentation Mud Pits**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-09-22	UE-10 ITS #2 Mud Pit (1)	Mud Pit	UE-10 ITS #2	Oak Spring
10-09-23	UE-10 ITS #3 Mud Pit (1)	Mud Pit	UE-10 ITS #3	Oak Spring
10-09-24	UE-10 ITS #1 Mud Pit (1)	Mud Pit	UE-10 ITS	Oak Spring
10-09-25	UE-10 ITS #6 Mud Pit (1)	Mud Pit	UE-10 ITS #6	Oak Spring
14-09-01	UE-14b Mud Pit (1)	Mud Pit	UE-14b	Mine Mountain
14-09-02	UE-14a Mud Pit (1)	Mud Pit	UE-14a	Mine Mountain
17-09-01	UE-17f Eleana Mud Pit (2)	Mud Pit	UE-17f Eleana	Tippipah Spring
19-09-29	U-19g Sandia Inst. Mud Pit (1)	Mud Pit	U-19g Sandia Inst.	Silent Butte
19-09-30	UE-19h Mud Pit (2)	Mud Pit	UE-19h	Dead Horse Flat
20-09-38	UE-20d Mud Pit (1)	Mud Pit	U-20d Crater Area	Scrugham Peak
20-09-39	UE-20bh #1 Mud Pit (1)	Mud Pit	UE-20bh #1	Scrugham Peak
20-09-40	UE-20n #1 Mud Pit (1)	Mud Pit	UE-20bh #1	Scrugham Peak
20-09-41	UE-20ae Mud Pit (1)	Mud Pit	U-20ae Crater Area	Silent Butte
20-09-42	UE-20av Mud Pit (1)	Mud Pit	U-20av Crater Area	Scrugham Peak
20-09-43	UE-20p Mud Pit (1)	Mud Pit	U-20p Crater Area	Trail Ridge

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 535 Mud Pits/Disposal Areas**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 7/27/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-09-04	UE-1L Mud Pit (1)	Mud Pit	UE-1L	Tippipah Spring
03-09-29	U-3me Mud Spill	Mud Pit	U-3 me	Yucca Flat
04-09-09	U-4aj Mud Spill	Mud Pit	U-4aj	Yucca Flat
04-09-11	U-4ac Mud Spill	Mud Pit	U-4ac	Yucca Flat
04-09-22	Unknown #11 Mud Pit/Disposal Area	Mud Pit	U-4i	
07-09-28	Unknown #12 Mud Pit/Disposal Area	Mud Pit	Near 7BY Road	
07-09-29	Unknown #13 Mud Pit/Disposal Area	Mud Pit	U-7j PS #1D	
10-09-10	U-10bh Mud Spill	Mud Pit	U-10bh	Oak Spring
19-09-31	Unknown #10 Mud Pit/Disposal Area	Mud Pit	Near U-19bg	Dead Horse Flat
19-09-32	Unknown #7 Covered Mud Pit/Disposal Area	Mud Pit	Near U-19e PS #1d	Dead Horse Flat
19-09-33	Unknown #8 Mud Pit/Disposal Area	Mud Pit	U-19c Crater Area	Dead Horse Flat
19-09-34	Unknown #9 Mud Pit/Disposal Area	Mud Pit	U-19c Crater Area	Dead Horse Flat
20-09-44	Unknown #4 Mud Pit/Disposal Area	Mud Pit	Near U-20aa PS #1d	Silent Butte
20-09-45	Unknown #5 Mud Pit/Disposal Area	Mud Pit	Near U-20am	Silent Butte
20-09-46	Unknown #14 Mud Pit/Disposal Area	Mud Pit	Pahute Mesa Rd (east side)	

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 540 Spill Sites**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 11/9/2006**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-44-01	ER12-1 Well Site Release	Oil/Fuel Spills	ER12-1	Rainier Mesa
12-99-01	Oil Stained Dirt	Housekeeping Waste	B Tunnel	Rainier Mesa
19-25-02	Oil Spill	Oil/Fuel Spills	U-19av GZ	Silent Butte
19-25-04	Oil Spill	Oil/Fuel Spills	U-19q	Dead Horse Flat
19-25-05	Oil Spill	Oil/Fuel Spills	U-19av	Silent Butte
19-25-06	Oil Spill	Oil/Fuel Spills	U-19j	Dead Horse Flat
19-25-07	Oil Spill	Oil/Fuel Spills	U-19j	Dead Horse Flat
19-25-08	Oil Spills (3)	Oil/Fuel Spills	Area 19 Camp	Silent Butte
19-44-03	U-19bf Drill Site Release	Oil/Fuel Spills	U-19bf	Dead Horse Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 555 Septic Systems**

**Owner: NNSA / Industrial Sites - DP**

**CAU Notice of Completion: 3/20/2007**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-59-01	Area 1 Camp Septic System	Septic System	SW Subdock Office Bldg 1-101	
03-59-03	Core Handling Building Septic System	Septic System	Bldg 850	
06-20-05	Birdwell Dry Well	Injection Well	Well 3 Yard Birdwell Complex	
06-59-01	Birdwell Septic System	Septic System	Well 3 Yard Birdwell Complex	
06-59-02	National Cementers Septic System	Septic System	Well 3 Yard	

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 10 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 103 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 109 Area 2 U-2bu Crater

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 1/25/2000

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-08-01	U-2bu Subsidence Crater (RCRA)	Waste Dump	U-2bu	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 11 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/19/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-22-01	Drums; Batteries	Housekeeping Waste	U-2bL	Oak Spring
02-24-03	Batteries; Drum	Housekeeping Waste	U-2j	Oak Spring
02-24-04	Battery	Housekeeping Waste	Pull Test Facility	Oak Spring
02-26-05	Lead Brick	Housekeeping Waste	U-2eh	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 110 Area 3 WMD U-3ax/bl Crater**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/30/2001**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.  
 Closure Report Rev. 1 approved

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-23-04	U-3axbl Subsidence Crater	Rad Contamination Area	Paca, Bobac	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 112 Area 23 Hazardous Waste Trenches**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/14/1994**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-21-02	Area 23 Haz. Waste Trenches (RCRA)	Waste Disposal Trench	Mercury Highway Bypass	Camp Desert Rock

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 113 Area 25 R-MAD Facility**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/19/2003**

Closure Report Rev. 1 approved

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-41-01	R-MAD Facility	D&D Facility	Building 3110	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 115 Area 25 Test Cell A Facility**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/13/2006**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-41-04	Test Cell A Facility	D&D Facility	Buildings 3113 & 3113A	Jackass Flats
25-99-04	Asbestos Wrapped Pipes	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-05	Asbestos Wrapped Pipes	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-06	Asbestos Wrapped Pipes	Housekeeping Waste	Test Cell A	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 119 Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/16/2000**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Area 1 Batch Plant	Tippipah Spring
02-01-01	Gas Sampling Tanks (8)	Aboveground Storage Tank	U-2gh PS Area	Yucca Flat
02-02-02	Underground Storage Tank	Underground Storage Tank	U-2cu PS #1A	Oak Spring
03-01-02	Aboveground Storage Tank	Aboveground Storage Tank	U-3ev-3 Shaft	Paiute Ridge
04-01-01	Aboveground Storage Tanks (3)	Aboveground Storage Tank	U-4ac	Yucca Flat
04-01-02	Gas Sampling Tank	Aboveground Storage Tank	U-4at PS #1	Yucca Flat
07-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Bunker 7-801	Yucca Flat
07-01-02	Aboveground Storage Tanks	Aboveground Storage Tank	U-7ca Crater	Yucca Flat
07-99-04	Gas Sampling Tank	Aboveground Storage Tank	U-7be	Yucca Flat
07-99-05	Gas Sampling Tanks (2)	Aboveground Storage Tank	U-7v	Yucca Flat
08-01-02	Aboveground Storage Tank	Aboveground Storage Tank	U-8d	Oak Spring
08-01-03	Aboveground Storage Tank	Aboveground Storage Tank	U-8d	Oak Spring
18-02-01	Underground Storage Tanks (2)	Underground Storage Tank	17 Camp Gas Station	Ammonia Tanks
18-02-02	Underground Storage Tank	Underground Storage Tank	17 Camp Gas Station	Ammonia Tanks
25-01-09	Aboveground Storage Tank	Aboveground Storage Tank	Building 3100, R-MAD	Skull Mountain
25-01-11	Aboveground Storage Tank	Aboveground Storage Tank	X-Tunnel	Striped Hills
25-01-14	Contaminated Storage Tank	Aboveground Storage Tank	E-MAD Facility	Jackass Flats
25-23-14	Trailer Tank	Aboveground Storage Tank	X-Tunnel	Striped Hills
26-02-03	Underground Storage Tank	Underground Storage Tank	Building 2201	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 12 Area 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/25/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
10-22-11	Drum	Housekeeping Waste	U-10aj F	Oak Spring
10-22-24	Drum	Housekeeping Waste	U-10am #1	Oak Spring
10-22-26	Drum	Housekeeping Waste	Stagecoach Crater	Oak Spring
10-22-27	Drum	Housekeeping Waste	U-10q	Oak Spring
10-24-03	Batteries (3)	Housekeeping Waste	Sedan	Oak Spring
10-24-04	Batteries (3)	Housekeeping Waste	U-10ar	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 120 Areas 5, 6 Aboveground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/17/1999**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
05-01-01	ASTs (3), piping and debris	Aboveground Storage Tank	RNM 1	Frenchman Lake
06-01-01	Portable Tanker Trailers (2), ASTs (2)	Aboveground Storage Tank	CP-50 Hot Park	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 122 Archived - Areas 8, 10, and 15 Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 123 Archived - Area 12 Aboveground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 125 Archived - Area 23 Aboveground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 126 Area 25 Aboveground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 2/2/1999**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-01-01	Aboveground Storage Tanks (2)	Aboveground Storage Tank	Bldg. 3320, ETS 1	Jackass Flats
25-01-02	Aboveground Storage Tank	Aboveground Storage Tank	Bldg. 3320, ETS 1	Jackass Flats
25-01-03	Aboveground Storage Tank	Aboveground Storage Tank	Bldg. 3310, ETS 1	Jackass Flats
25-01-04	Aboveground Storage Tank	Aboveground Storage Tank	Bldg. 3320, ETS 1	Jackass Flats
25-01-08	Aboveground Storage Tank	Aboveground Storage Tank	Building 4838	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 128 Archived - Area 29 Aboveground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 129 Archived - Areas 4, 7, and 8 Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 13 Area 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/4/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-24-01	Battery	Housekeeping Waste	U-10be	Oak Spring
10-24-02	Batteries (12)	Housekeeping Waste	U-10au	Oak Spring
10-24-05	Battery	Housekeeping Waste	U-10a	Oak Spring
10-24-06	Battery	Housekeeping Waste	Area 10 Bunker	Oak Spring
10-24-07	Battery	Housekeeping Waste	U-10x	Oak Spring
10-24-09	Batteries (2)	Housekeeping Waste	U-10e	Oak Spring
10-24-12	Battery	Housekeeping Waste	U-10ap #1	Oak Spring
10-26-01	Lead Bricks (4)	Housekeeping Waste	Area 10 Bunker	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 131 Archived - Storage Tanks and Contaminated Materials

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 8/12/2005

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 132 Archived - Area 16 Underground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 133 Archived - Area 20 Underground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 135 Area 25 Underground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/27/2001**

Closure Report Rev. 1 approved

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-02-01	Underground Storage Tanks	Underground Storage Tank	E-MAD Facility	Jackass Flats
25-02-03	Underground Electrical Vault	Other	Test Cell A	Jackass Flats
25-02-10	Underground Storage Tank	Underground Storage Tank	Test Cell A	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 136 Archived - Area 26 Underground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 137 Waste Disposal Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/20/2007**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-08-01	Waste Disposal Site	Rad Contamination Area	Easy, Simon, Apple II, and Galileo	Yucca Flat
03-23-01	Waste Disposal Site	Rad Contamination Area	Seaweed	Paiute Ridge
03-23-07	Radioactive Waste Disposal Site	Rad Contamination Area	U-3hk-d	Paiute Ridge
03-99-15	Waste Disposal Site	Waste Disposal Site	U-3an	Yucca Flat
07-23-02	Radioactive Waste Disposal Site	Rad Contamination Area	Lampblack	Yucca Flat
09-23-07	Radioactive Waste Disposal Site	Rad Contamination Area	Campos	Oak Spring
12-08-01	Waste Disposal Site	Rad Contamination Area	Red Hot	Rainier Mesa
12-23-07	Waste Disposal Site	Rad Contamination Area	G-Tunnel	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 138 Archived - Area 3 Waste Dumps

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 14 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/12/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-22-10	Drum	Housekeeping Waste	U-2dk	Yucca Flat
02-24-01	Battery	Housekeeping Waste	Blockhouse 2-300	Oak Spring
02-24-08	Batteries (2)	Housekeeping Waste	U-2dw	Yucca Flat
02-26-04	Lead Weights	Housekeeping Waste	U-2er	Oak Spring
02-26-06	Lead Sheets	Housekeeping Waste	U-2bf	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 140 Waste Dumps, Burn Pits, and Storage Area**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/7/2005**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-08-01	Detonation Pits	Ordnance Site	None	Frenchman Lake
05-08-02	Debris Pits	Waste Dump	Gravel Gertie	Frenchman Lake
05-17-01	Hazardous Waste Accumulation Site (Buried)	Hazardous Waste Site	Triple Point Bunker	Frenchman Lake
05-19-01	Waste Disposal Site	Waste Disposal Site	N Frenchman Lake	Frenchman Lake
05-23-01	Gravel Gertie	Rad Contamination Area	Gravel Gertie	Frenchman Lake
05-35-01	Burn Pit	Burn Cage/Pit	Area 5 RWMS	Frenchman Lake
05-99-04	Burn Pit	Burn Cage/Pit	Spill Test Facility	Frenchman Lake
22-99-04	Radioactive Waste Dump	Rad Contamination Area	Camp Desert Rock	Point of Rocks
23-17-01	Hazardous Waste Storage Area	Hazardous Waste Site	Area 23	Camp Desert Rock

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 141 Archived - Area 7 Waste Dumps

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 142 Archived - Area 12, I,J,K Tunnel Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 143 Area 25 Contaminated Waste Dumps**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/4/2002**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-23-03	Contaminated Waste Dump #2	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-23-09	Contaminated Waste Dump #1	Rad Contamination Area	R-MAD Facility	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 146 Archived - Area 3 Subdock Injection Well(s)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 147 Archived - Area 3 ETS Building Injection Well & Holding Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 148 Archived - Area 3 Ud3a, Ud3b Landfill Injection Wells

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 149 Archived - Area 3 J-6 Containment Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 15 Area 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/12/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-22-01	Drum	Housekeeping Waste	RSM 10 C 1	Oak Spring
10-22-09	Drums (4)	Housekeeping Waste	U-10aj F	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 150 Archived - Area 5 DOD Camp Open Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 152 Archived - Area 9 U-9u Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 153 Archived - Area 9 Containment Shop Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 154 Archived - Area 9 U-9 ITS Y-30 PS 19 Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 155 Archived - Area 12 Machine Shop Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 156 Archived - Area 15 EPA Farm Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 157 Archived - Injection Wells

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 4/21/2005

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 158 Archived - Area 16 Generator Shop Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 159 Archived - Area 20 U-20ac Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 16 Area 12 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/12/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-22-07	Drums (3)	Housekeeping Waste	U-12b.07-1	Rainier Mesa
12-24-02	Batteries (4)	Housekeeping Waste	U-12b R-9	Rainier Mesa
12-24-03	Battery	Housekeeping Waste	RSM 12 H 5	Rainier Mesa
12-24-08	Battery	Housekeeping Waste	RSM 12 R 15	Rainier Mesa
12-24-09	Battery	Housekeeping Waste	Stockade Wash Road	Rainier Mesa
12-24-10	Batteries (2)	Housekeeping Waste	Stockade Wash Road	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 160 Archived - Area 20 U-20av Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 161 Archived - Area 20 UE-20n & Pahute Mesa Injection Wells

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 162 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 163 Archived - Area 20 U-20az PS Injection Well

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 164 Archived - Area 23 Motor Pool Injection Wells

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 165 Area 25 and 26 Dry Well and Washdown Areas**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/20/2005**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.  
 CADD Rev. 0 disapproved

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-07-06	Train Decontamination Area	Decon Pad	E-MAD Facility	Jackass Flats
25-07-07	Vehicle Washdown	Decon Pad	Reactor Control Point	Jackass Flats
25-20-01	Lab Drain Dry Well	Injection Well	Building 4215 (East Side)	Jackass Flats
25-47-01	Reservoir and French Drain	Other Ponds/Lagoons	Reactor Control Point	Jackass Flats
25-51-02	Drywell	Underground Discharge Point	Building 3320 at ETS-1	Jackass Flats
25-59-01	Septic System	Septic System	Building 3901 at E-MAD	Jackass Flats
26-07-01	Vehicle Washdown Station	Decon Pad	Building 2201	Skull Mountain
26-59-01	Septic System	Septic System	Building 2205	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 167 Contaminated Materials and Trash Pits**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/2/2005**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
05-99-05	Combat Tank; Radioactive Material	Other	Frenchman Lake	Frenchman Lake
19-19-02	Trash Pit	Waste Disposal Site	NE of U-19ab	Dead Horse Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 168 Area 25 and 26 Contaminated Materials and Waste Dumps**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 2/5/2007**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-16-01	Construction Waste Pile	Construction Waste Landfill	E-MAD Facility	Jackass Flats
25-16-03	MX Construction Landfill	Construction Waste Landfill	MX Salvage Yard	Amargosa Valley
25-19-02	Waste Disposal Site	Waste Disposal Site	SE corner outside R-MAD	Skull Mountain
25-23-02	Radioactive Storage RR Cars	Rad Contamination Area	Radioactive Material Yard	Jackass Flats
25-23-13	ETL - Lab Radioactive Contamination	Rad Contamination Area	TTF Building	Jackass Flats
25-23-18	Radioactive Material Storage	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-34-01	NRDS Contaminated Bunker	Magazine/Bunker	Rad Materials Storage	Jackass Flats
25-34-02	NRDS Contaminated Bunker	Magazine/Bunker	Rad Materials Storage	Jackass Flats
25-99-16	USW G3	Rad Contamination Area	Yucca Mountain	Busted Butte
26-08-01	Waste Dump/Burn Pit	Waste Dump	Building 2204	Skull Mountain
26-17-01	Pluto Waste Holding Area	Hazardous Waste Site	Pluto Facility	Skull Mountain
26-19-02	Contaminated Waste Dump #2	Waste Disposal Site	Tom Reactor Test	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 169 Archived - Area 26 Contaminated Materials

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 17 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/20/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-22-03	Drum	Housekeeping Waste	U-2bg #2	Oak Spring
02-22-05	Drum	Housekeeping Waste	U-2bf	Oak Spring
02-22-07	Drums (2)	Housekeeping Waste	U-2q/ U-2at	Yucca Flat
02-24-02	Batteries	Housekeeping Waste	Blockhouse 2-353	Oak Spring
02-24-07	Batteries	Housekeeping Waste	U-2ey	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 170 Archived - Area 2 Contaminated Materials

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 171 Archived - Area 3 Site 3B Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 172 Archived - Area 3 U-3hk-d, U3gi Contaminated Waste Dumps

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 173 Archived - Area 3 U-3ee Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 174 Archived - Area 5 Gravel Gertie Contaminated Waste

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 175 Archived - Area 5 Contaminated Materials

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 176 Areas 5, 6, and 11 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/9/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-23-03	Vacuum Cleaners (10)	Other	GMX Facility	Frenchman Lake
05-24-07	Batteries	Housekeeping Waste	RSM 5E4	Frenchman Lake
06-01-02	Stock Tank	Housekeeping Waste	6-04 Road & Monastery	Yucca Lake
06-22-48	Drums/Radioactive Materials (8)	Barrels/Drums/Buckets/Cans	CP-50 Hot Park	Yucca Lake
06-23-04	Hot Park	Rad Contamination Area	Hot Park	Yucca Lake
06-98-01	Tank Wheel Bases	Housekeeping Waste	CP-50 Hot Park	Yucca Lake
06-98-02	Trailers	Housekeeping Waste	CP-50 Hot Park	Yucca Lake
06-98-03	Lead Boxes (2)	Housekeeping Waste	CP-50 Hot Park	Yucca Lake
06-99-08	Steam Pipe w/Asbestos	Other	Well 3 Yard, Bldg. 660	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 177 Mud Pits and Cellars**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/7/2007**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
08-23-01	Mud Pit and Cellar	Rad Contamination Area	Cyathus	Oak Spring
09-09-41	Unknown #3 Mud Pit/Disposal Area	Mud Pit	Near U-9bz	Oak Spring
09-09-45	U-9bz PS #1A Mud Pit (1) and Cellar	Mud Pit	U-9bz PS #1A	Yucca Flat
09-23-05	Mud Pit and Cellar	Rad Contamination Area	Cathay	Yucca Flat
09-23-08	Mud Pit and Cellar	Rad Contamination Area	U-9 ITS W-22	Oak Spring
09-23-09	U-9itsx20 PS #1A Cellar	Rad Contamination Area	U-9 ITS X-20	Oak Spring
10-23-02	Mud Pit and Cellar	Rad Contamination Area	Tun	Oak Spring
10-23-03	Mud Pit and Cellar	Rad Contamination Area	Tun	Oak Spring
19-23-01	Mud Pit and Cellar	Rad Contamination Area	Panir	Dead Horse Flat
19-23-02	Cellar and Waste Storage Area	Rad Contamination Area	Panir	Dead Horse Flat
19-23-03	Cellar with Casing	Rad Contamination Area	Tierra	Dead Horse Flat
20-23-07	Cellar	Rad Contamination Area	Bullion	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 178 Archived - Area 7 U-7i Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 179 Archived - Area 9 Circle Road Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 18 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/20/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-22-06	Drum	Housekeeping Waste	CP-1 Helipad	Yucca Lake
06-22-15	Drums (2)	Housekeeping Waste	CP-40	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 180 Archived - Area 9 U-9ch Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 181 Archived - Area 9 U-9cp Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 182 Archived - Area 9 U-9 ITS W-22 Buried Radioactive Material

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 183 Archived - Area 9 U-9 ITS X-20 Buried Radioactive Material

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 184 Archived - Area 10 "Scooter" Contaminated Material

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 185 Archived - Area 12 U-12g & U-12f Tunnel Portals Contaminated Waste Dump  
**Owner:** NNSA / Industrial Sites - ERP **CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 186 Archived - Area 12 U-12a Tunnel Portal Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 187 Archived - Areas 12, 15 Tunnel and Mine Portals

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 4/21/2005

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 188 Archived - Area 12 U-12d Tunnel Portal Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 189 Archived - Area 12 U-12b Tunnel Portal Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 19 Area 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/20/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
10-22-14	Drum	Housekeeping Waste	U-10aj F	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 191 Archived - Area 15 Tiny Tot Portals Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 192 Archived – Area 15 Oak Springs Mine Shaft

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 193 Archived - Area 15 Climax Mine Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 194 Archived - Area 19 U-19ay Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 195 Archived - Area 19 U-19ac Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 196 Archived - Area 22 Camp Desert Rock Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 197 Archived - Area 25 Sample Management Building Contaminated Materials

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 198 Area 25 Test Cell C Contaminated Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 1/27/1999

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-23-12	Contaminated Tanks	Aboveground Storage Tank	Test Cell C	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 199 Archived - Area 25 X-Tunnel Contaminated Tank

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 20 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-22-09	Drum	Housekeeping Waste	U-2dt	Yucca Flat
02-99-08	Gas Can in Mud Pit	Housekeeping Waste	U-2dp PS #1	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 200 Archived - Area 25 Test Cell C Contaminated Wash

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 201 Archived - Area 25 RMSF Contaminated Bunkers

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 202 Archived - Area 25 USW G3 Contaminated Soils and Borehole

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 203 Archived - Areas 1, 2, 3 Bunkers and Shaker Plant

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 204 Storage Bunkers**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/17/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-34-01	Underground Inst. House Bunker	Magazine/Bunker	Building 1-300	Yucca Flat
02-34-01	Instrument Bunker	Magazine/Bunker	Building 2-300	Oak Spring
03-34-01	Underground Bunker	Magazine/Bunker	Bunker 3-300	Yucca Flat
05-18-02	Chemical Explosives Storage	Magazine/Bunker	Sugar Bunker	Frenchman Lake
05-33-01	Kay Blockhouse	Building	5-07 Road near 5-03 Road	Frenchman Lake
05-99-02	Explosive Storage Bunker	Magazine/Bunker	Bunker 803	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 205 Archived - Area 5 North Frenchman Lake Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 206 Archived - Area 5 WMA Contaminated Materials

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 208 Archived - Area 9 Storage Bunker 9-300

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 209 Archived – Area 12 Storage Areas

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 21 Area 3 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-22-11	Drum	Housekeeping Waste	U-3hj	Yucca Flat
03-22-21	Drum	Housekeeping Waste	U-3mh	Paiute Ridge
03-22-27	Drums (2)	Housekeeping Waste	U-3me	Yucca Flat
03-22-32	Drum/Bucket	Housekeeping Waste	U-3ba	Yucca Flat
03-24-15	Battery	Housekeeping Waste	U-3la	Yucca Flat
03-99-16	Gas Cylinder	Housekeeping Waste	U-3mf PS #2A	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 210 Storage Areas and Contaminated Material**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/11/2004**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-99-10	Storage Flatcar	Other	None	Rainier Mesa
15-18-01	Chemical Storage Drums (4)	Chemical Storage	Climax Hoist	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 211 Area 15 EPA Farm Waste Dump**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/3/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
15-01-02	Aboveground Storage Tanks	Aboveground Storage Tank	EPA Farm	Oak Spring
15-01-06	Aboveground Storage Tank	Aboveground Storage Tank	EPA Farm	Oak Spring
15-19-01	Waste Disposal Site	Waste Disposal Site	EPA Farm	Oak Spring
15-22-31	Fuel Can	Housekeeping Waste	EPA Farm	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 212 Area 23 Warehouses E&R Chemical Storage**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/3/1999**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
22-02-01	Underground Storage Tank	Underground Storage Tank	Desert Rock Airstrip	Camp Desert Rock
22-19-02	Trash Dump	Waste Disposal Site	Weather Station	Point of Rocks
22-24-01	Battery	Housekeeping Waste	S. of Jackass Flats Road	Point of Rocks
23-18-01	Hazardous Chemical Storage	Chemical Storage	Warehouse E	Mercury
23-18-02	Hazardous Chemical Storage	Chemical Storage	Warehouse R	Mercury
23-22-01	Cans - Epoxy Leak	Housekeeping Waste	Communication Trailers	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 213 Archived - Area 23 Salvage Yard

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 214 Bunkers and Storage Areas**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/18/2006**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-99-01	Fallout Shelters	Other	Area 5 CD Test Area	Frenchman Lake
11-22-03	Drum	Housekeeping Waste	Plutonium Valley	Plutonium Valley
25-23-01	Contaminated Materials	Rad Contamination Area	Sample Managing Building	Jackass Flats
25-23-19	Radioactive Material Storage	Rad Contamination Area	Building 4320 (Behind)	Jackass Flats
25-34-03	Motor Dr/Gr Assembly (Bunker)	Magazine/Bunker	Engine Test Stand 1	Jackass Flats
25-34-04	Motor Dr/Gr Assembly (Bunker)	Magazine/Bunker	Engine Test Stand 1	Jackass Flats
25-34-05	Motor Dr/Gr Assembly (Bunker)	Magazine/Bunker	Engine Test Stand 1	Jackass Flats
25-99-12	Fly Ash Storage	Other	Bren Tower	Skull Mountain
25-99-18	Storage Area	Other	MX Missile Site	Amargosa Valley

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 215 Archived - Area 26 MAD 401 Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 216 Archived - Area 26 Tom Reactor Test Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 217 Archived - Area 26 Horn Silver Mine Contaminated Waste Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 218 Archived - Area 2 Camp Sewage Lagoons

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 219 Septic Systems and Injection Wells**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/15/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.  
 Submitted as CADD/CR

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-11-01	Steam Pipes and Asbestos Tiles	Other	Area 3 Subdock	Yucca Flat
16-04-01	Septic Tanks (3)	Septic Tank	Area 16 Camp	Tippipah Spring
16-04-02	Distribution Box	Other	Area 16 Camp	Tippipah Spring
16-04-03	Sewer Pipes	Other	Area 16 Camp	Tippipah Spring
23-20-01	DNA Motor Pool Sewage and Waste System	Injection Well	DNA Motor Pool	Mercury
23-20-02	Injection Well	Injection Well	Old REECo Motor Pool	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 22 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
06-22-07	Bucket	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-11	Drum	Housekeeping Waste	3-12 Road	Yucca Lake
06-22-21	Drum	Housekeeping Waste	U-6g	Yucca Lake
06-22-26	Drums	Housekeeping Waste	CP Press Stands	Yucca Lake
06-26-01	Lead Bricks	Housekeeping Waste	Tweezer Road	Plutonium Valley

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 220 Archived - Area 5 Sewage Lagoon

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 221 Archived - Area 6 Sewage Lagoons

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 222 Archived - Area 9 U-9y Sewage Pit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 223 Archived - Area 12 Camp Sewage Lagoons

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 225 Archived - Area 12 Camp Septic Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 226 Archived - Area 15 EPA Farm Septic Tank

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 227 Archived - Area 16 Camp Sewage System

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 228 Archived - Area 17, 18 Camp Sewage Lagoon

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 229 Archived - Area 20 Camp Sewage System

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 23 Area 12 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-22-06	Bucket	Housekeeping Waste	U-12b.04A Vent	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 230 Area 22 Sewage Lagoons**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/17/2001**

CADD Document contains CAUs 230, 320

Closure Report Document contains CAUs 230, 320

Document contains CAUs 230, 320

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-03-02	Sewage Lagoons (2)	Sewage Lagoon	CP-1 South	Yucca Lake
06-03-03	Sewage Lagoons (4)	Sewage Lagoon	CP-1 Helipad	Yucca Lake
22-03-01	Sewage Lagoon	Sewage Lagoon	Desert Rock Airstrip	Point of Rocks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 231 Archived - Area 23 Building 200 Sewage Lagoons

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 232 Area 25 Sewage Lagoons

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 6/13/2000

Submitted as CADD/CR

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-03-01	Sewage Lagoon	Sewage Lagoon	Test Cell C	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 233 Archived - Area 26 Sewage System

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 235 Archived - Area 2 Wastewater Basin

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 236 Archived - Area 3 Mudplant Flushing Pond

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 237 Archived - Area 5 Well 2S Evaporation Pond

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 238 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 239 Archived - Area 12 Buildings 12-8/12-6 Wastewater Pond

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 24 Area 3 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/25/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-22-36	Buckets (2)	Housekeeping Waste	Bunker 3-300	Yucca Flat
03-24-11	Battery	Housekeeping Waste	U-3kz	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 240 Area 25 Vehicle Washdown**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/3/2001**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-07-01	Vehicle Washdown Area	Decon Pad	Building 4839	Jackass Flats
25-07-02	Vehicle Washdown Area	Decon Pad	F Road at J Road	Jackass Flats
25-07-03	Vehicle Washdown Station	Decon Pad	Building 3152	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 241 Archived - Area 26 Building 2201 Vehicle Washdown Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 242 Archived - Area 3 BJY Decontamination Pad/Sump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 243 Archived - Area 5 RWMS Decontamination Pad/Sump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 244 Archived - Area 6 Decontamination Pads/Laundry

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 245 Archived - Area 6 Well 3 Yard Cement Washdown

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 246 Archived - Area 6 CP-6 Decon Pad Accumulation Sump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 247 Archived - Area 6 CP-6 Decon Pad Wastewater Catch

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 248 Archived - Area 14 UE-14b Sump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 249 Archived - Area 15 EPA Farm Cement Mudpit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 25 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/25/1994**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-22-10	Drum	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-12	Drum	Housekeeping Waste	Well 3 B	Yucca Lake
06-22-13	Trash Container	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-14	Drum	Housekeeping Waste	Well 3 B	Yucca Lake
06-22-18	Drum	Housekeeping Waste	Yucca Lake, east side	Yucca Lake
06-22-19	Drum	Housekeeping Waste	Yucca Lake, east side	Yucca Lake
06-22-23	Drum; Debris	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-28	Drum	Housekeeping Waste	Yucca Airstrip	Yucca Lake
06-22-29	Drums (3)	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-33	Drum	Housekeeping Waste	CP-2	Yucca Lake
06-22-38	Drums (2)	Housekeeping Waste	Well 3 Yard	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 250 Archived - Area 15 EPA Farm Contaminated Sump/Piping

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 251 Archived - Area 23 Building 540 Leachfield/Sump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 252 Area 25 Engine Test Stand 1 Decontamination Pad

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 10/30/2000

Submitted as CADD/CR

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-07-04	Decontamination Pad	Decon Pad	Engine Test Stand 1	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 253 Archived - Area 25 EMAD Train Decontamination Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 254 Area 25 R-MAD Decontamination Facility**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/27/2002**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-23-06	Decontamination Facility	Rad Contamination Area	Building 3126, R-MAD	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 255 Archived - Area 3 Subdock Leachfield System

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 256 Archived - Area 6 Building 6-72 Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 257 Archived - Area 6 CP-2 Leachfield Piping

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 258 Archived - Area 9 U-9y Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 259 Archived - Area 15 EPA Farm Contaminated Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 26 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-22-08	Drum	Housekeeping Waste	U-2bg	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 260 Archived - Area 23 Building 155 Leach Pit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 261 Area 25 Test Cell A Leachfield System**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/30/2001**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-05-01	Leachfield	Leachfield	Test Cell A	Jackass Flats
25-05-07	Acid Waste Leach Pit	Leachfield	Test Cell A	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 262 Area 25 Septic Systems and UDP**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/10/2003**

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

CADD Rev. 1 approved

Closure Report Rev. 1 approved

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-02-06	Underground Storage Tank	Leachfield	E-MAD Facility	Jackass Flats
25-04-06	Septic Systems A and B	Septic System	Test Cell C	Jackass Flats
25-04-07	Septic System	Septic System	Building 3210	Jackass Flats
25-05-03	Leachfield	Leachfield	R-MAD Facility	Skull Mountain
25-05-05	Leachfield	Leachfield	R-MAD Facility	Skull Mountain
25-05-06	Leachfield	Leachfield	E-MAD Facility	Jackass Flats
25-05-08	Radioactive Leachfield	Leachfield	Test Cell C	Jackass Flats
25-05-12	Leachfield	Leachfield	Building 3126	Jackass Flats
25-51-01	Dry Well	Underground Discharge Point	Building 3125	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 263 Area 25 Building 4839 Leachfield**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/31/2000**

Submitted as CADD/CR

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-07-01	Decon Pad/Sump	Decon Pad	RWMS Building 5-6	Frenchman Lake
25-05-04	Leachfield	Leachfield	Building 4839	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 264 Archived - Area 25 EMAD Contaminated Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 265 Archived - Area 25 Test Cell C Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 266 Area 25 Building 3124 Leachfield**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/13/2000**

Submitted as CADD/CRCR Milestone due date not established prior to CADD/CR submittal.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-05-09	Leachfield	Leachfield	Building 3124	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 267 Archived - Area 25 Steam Plant Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 268 Archived - Area 25 Service Station Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 269 Archived - Area 25 Building 3124 Sump or Tank

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 27 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
06-22-24	Drums (7)	Housekeeping Waste	Well 3 Yard	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 270 Archived - Area 26 Building 2201 Leachfields

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 271 Areas 25, 26, and 27 Septic Systems**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/16/2004**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-04-01	Septic System	Septic System	Security Checkpoint	Jackass Flats
25-04-03	Septic System	Septic System	PAN-AM Trailer	Jackass Flats
25-04-04	Septic System	Septic System	Reactor Control Point	Jackass Flats
25-04-08	Septic System	Septic System	Bren Tower	Skull Mountain
25-04-09	Septic System	Septic System	Engine Test Stand 1	Jackass Flats
25-04-10	Septic System	Septic System	RadSafe Trailer	Jackass Flats
25-04-11	Septic System	Septic System	S of LASL Trailers	Jackass Flats
26-03-01	Contaminated Water Reservoir	Other Ponds/Lagoons	Port Gaston Training Area	Skull Mountain
26-04-01	Septic System	Septic System	Area 26 Check Station	Skull Mountain
26-04-02	Septic System	Septic System	Hot Critical Facility	Skull Mountain
26-05-01	Radioactive Leachfield	Leachfield	Buildings 2201 & 2202	Skull Mountain
26-05-03	Septic System	Septic System	Building 2203	Skull Mountain
26-05-04	Septic System	Septic System	Building 2201	Skull Mountain
26-05-05	Septic System	Septic System	Buildings 2101, 2102, & 2107	Skull Mountain
27-05-02	Leachfield	Leachfield	Building 5200	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 272 Archived - Area 26 Buildings 2101, 2102 & 2105 Leachfields

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 273 Archived - Area 26 MAD 401 Leachfield

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 274 Septic Systems**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/21/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-02-01	WX-6 ETS Building Septic System	Septic System	Area 3 ETS Building	Yucca Flat
06-02-01	Cesspool	Septic Tank	Building 6-388	Yucca Lake
09-01-01	Spill Site	Oil/Fuel Spills	U-9y	Oak Spring
09-05-01	Leaching Pit	Leachfield	U-9y	Oak Spring
20-05-01	Septic System	Leachfield	Area 20 Camp	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 275 Archived - Area 2 U-2ei Mud Disposal

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 276 Archived - Area 3 U-3kz Mud Disposal Trenches

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 277 Archived - Area 9 U-9y Drilling Mud Disposal Crater

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 278 Archived - Area 12 Batch Plant Mud Disposal

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 279 Archived - Area 20 Mud Disposal Sites

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 28 Area 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/15/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
10-22-08	Drums (2)	Housekeeping Waste	U-10L	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 280 Archived - Area 3 S-9e/T-9c Burn Pit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 281 Archived - Area 5 RWMS/Spill Test Facility Burn Pits

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 282 Archived - Areas 17 and 18 Burn Pits

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 283 Archived - Area 19 Mud Disposal Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 284 Archived - Area 23 Burn Pit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 285 Archived - Area 30 Burn Pit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 286 Lead/Chemical/Spill Sites and Material Dumps**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/31/2005**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-26-02	Lead Sheets; Lead Lined Pit	Lead	Brick House	Yucca Flat
02-26-02	Lead Pipes/RAD Area	Lead	RSM 2 N 8	Oak Spring
02-26-10	Lead Shot	Lead	U-2gb	Oak Spring
02-99-06	Material Dump	Housekeeping Waste	U-2bp PS #2	Oak Spring
03-25-02	Oil Spills	Oil/Fuel Spills	Area 3 Subdock	Yucca Flat
03-29-01	Methyl Alcohol Bottle	Abandoned Chemicals	Satellite Vehicle	Yucca Flat
03-29-02	Acid Box; Chemicals	Abandoned Chemicals	Core/ETS Building	Yucca Flat
04-99-03	Oil (Quart)	Housekeeping Waste	Bunker 4-380	Yucca Flat
06-14-01	Radiation Counting Shield (Lead)	Lead	CP-400	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 287 Archived - Area 3 Chemical Sites

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 288 Area 25 EMAD/TTF Chemicals Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/13/2000**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-23-04	Radioactively Contaminated Crates	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-23-05	Radioactive Contaminated Debris	Rad Contamination Area	TTF Building	Jackass Flats
25-23-10	Contaminated Materials	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-29-01	Miscellaneous Chemicals	Abandoned Chemicals	E-MAD Facility	Jackass Flats
25-29-02	Miscellaneous Chemicals	Abandoned Chemicals	TTF Building	Jackass Flats
25-29-03	Miscellaneous Chemicals	Abandoned Chemicals	TTF Building	Jackass Flats
25-29-04	Miscellaneous Chemicals	Abandoned Chemicals	E-MAD Facility	Jackass Flats
25-29-05	Miscellaneous Chemicals	Abandoned Chemicals	R-MAD Facility	Skull Mountain
25-29-07	Ethylene Glycol	Abandoned Chemicals	E-MAD Facility	Jackass Flats
25-29-08	Miscellaneous Chemicals	Abandoned Chemicals	Building 3152	Jackass Flats
25-29-09	Miscellaneous Chemicals	Abandoned Chemicals	E-MAD Facility	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 289 Archived - Area 25 RMAD Chemical Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 29 Area 27 Explosive Ordnance Disposal (EOD)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/9/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
27-19-01	Explosive Disposal Site	Waste Disposal Site	EOD Area	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 290 Archived - Area 25 Building 3152 Chemical Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 291 Archived - Area 2 U-2av Epoxy Tar Spill

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 292 Archived - Area 3 Oil Spills

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 293 Archived - Area 17 Burn Pit

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 294 Archived - Area 18 Little Feller I Wax/Oil Spills

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 295 Archived - Area 20 U-20z Tar Residue

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 296 Archived - Area 23 Building 751 Soil Stain

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 297 Area 25 EMAD Vacuum Pump Oil Recovery

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 4/16/1999

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-25-01	Vacuum Pump Oil Recovery	Oil/Fuel Spills	E-MAD Facility	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 298 Archived - Area 3 U-3an Dirt Berm/Shaft

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 299 Archived - Area 5 Triple Point Bunker Buried Hazardous Waste

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 301 Archived - Area 18 Airport Trailer Park Disposal Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 302 Archived - Area 18 Ammunition Dump

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 303 Archived - Area 19 Trash Pits

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 304 Archived - Area 19 U-19ad, U-19q Waste Dumps

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 305 Archived - Area 20 U-20p Waste Disposal Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 306 Archived - Area 22 Desert Rock Area Waste Dumps

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 307 Archived - Area 23 Hazardous Waste Storage

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 308 Archived - Area 26 Pluto Facility Waste Holding Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 309 Area 12 Muckpiles**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/10/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.  
 Submitted as CADD/CR

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-06-09	Muckpile	Muckpile	I, J, K Tunnels	Rainier Mesa
12-08-02	Contaminated Waste Dump (CWD)	Rad Contamination Area	I, J, K Tunnels	Rainier Mesa
12-28-01	I, J, and K-Tunnel Debris	Rad Contamination Area	I, J, K Tunnels	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 310 Archived - Area 12 U-12b Tunnel Muckpile

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 311 Archived - Area 12 U-12c,d,f Tunnels Muckpile

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 312 Archived - Area 2 U-2bp Material Dumps

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 313 Archived - Area 12 I,J,K Tunnels Muckpile

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 314 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 315 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 316 Archived - Area 12 Miners Change House Boiler

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 317 Archived - Area 23 Mercury Cafeteria Boilers

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 318 Archived - Area 25 Test Cell C Boiler

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 319 Archived - Area 16 Camp Fuel Lines

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 320 **Area 22 Desert Rock Airport Strainer Box**

**Owner:** **NNSA / Industrial Sites - ERP**

**CAU Notice of Completion:** **7/17/2001**

CADD Document contains CAUs 230, 320

Closure Report Document contains CAUs 230, 320

Document contains CAUs 230, 320

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
22-99-01	Strainer Box	Other	Desert Rock Airstrip	Point of Rocks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 321 Area 22 Weather Station Fuel Storage**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/19/2001**

Submitted as CADD/CR. Rev. 1 approved.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
22-99-05	Fuel Storage Area	Other	New Weather Station	Point of Rocks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 330 Areas 6, 22, and 23 Tanks and Spill Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/25/2003**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
06-02-04	UST and Piping	Underground Storage Tank	Well 3 Yard, Bldg. 660	Yucca Lake
22-99-06	Fuel Spill	Oil/Fuel Spills	Camp Desert Rock	Camp Desert Rock
23-01-02	Large AST Farm	Aboveground Storage Tank	Area 23	Camp Desert Rock
23-25-05	Asphalt Oil Spill/Tar Release	Oil/Fuel Spills	Bldg. 160 Mercury	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 336 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 341 Archived - Area 23 Fleet Operations Steam Cleaning Effluent

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 342 Area 23 Mercury Fire Training Pit**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/10/2000**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.  
 CADD Rev. 1 approved

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-56-01	Former Mercury Fire Training Pit	Fire Training Area	Mercury Salvage Yard	Camp Desert Rock

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 35 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 361 Archived - Area 25 Sewage Systems

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 362 Archived - Area 5 Landfills/Burn Pits

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 368 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 369 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 376 Area 12 Underground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/12/1994**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-02-02	Underground Storage Tanks (2)	Underground Storage Tank	Ironworks Shop	Rainier Mesa
12-02-04	Underground Storage Tanks (2)	Underground Storage Tank	Former Gas Station	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 377 Area 23 Underground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/12/1994**

Notice of Completion dates: 06/09/93 and 04/12/94

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
23-02-01	Underground Storage Tank	Underground Storage Tank	Building 110	Mercury
23-02-04	Underground Storage Tank	Underground Storage Tank	Building 112	Mercury
23-02-06	Fuel Tanks (2)	Underground Storage Tank	Building 210	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 378 Area 25 Underground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/4/1995**

Notice of Completion dates: 06/09/93, 04/12/94 and 01/04/95.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-02-05	Underground Storage Tank	Underground Storage Tank	Test Cell A	Jackass Flats
25-02-07	Underground Storage Tank	Underground Storage Tank	Building 4838	Jackass Flats
25-02-08	Underground Storage Tanks (2)	Underground Storage Tank	Building 4838	Jackass Flats
25-02-09	Underground Storage Tank	Underground Storage Tank	R-MAD Facility	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 379 Archived - Area 26 Underground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 380 Areas 1,3,9,14,15,16,19,23 Housekeeping Transformer Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/18/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-14-01	Transformer	Housekeeping Waste	Bunker 1-61	Yucca Flat
01-14-02	Transformers (2)	Housekeeping Waste	Area 1 Camp	Tippipah Spring
01-27-01	Transformers	Housekeeping Waste	Area 1 Camp	Tippipah Spring
03-14-01	Transformer	Housekeeping Waste	U-3mf PS #2A	Yucca Flat
03-14-02	Transformers	Housekeeping Waste	U-3kz	Yucca Flat
03-14-03	Transformers; Switch Boxes	Housekeeping Waste	U-3ba/Area 3 Mudplant	Yucca Flat
03-14-04	Transformers; Switch Boxes	Housekeeping Waste	Bunker 3-300	Yucca Flat
03-14-06	Power Substation	Housekeeping Waste	U-3ah	Yucca Flat
03-14-07	Power Substation	Housekeeping Waste	U-3mk	Paiute Ridge
03-14-08	Transformer	Housekeeping Waste	Bunker 3-300	Yucca Flat
03-14-09	Switch Box	Housekeeping Waste	ETS Building	Yucca Flat
03-14-10	Transformer	Housekeeping Waste	Old Core Building	Yucca Flat
03-14-11	Switch Box	Housekeeping Waste	U-3me	Yucca Flat
03-14-12	Transformer	Housekeeping Waste	U-3auS	Yucca Flat
03-14-13	Transformers	Housekeeping Waste	Area 3 Machine Shop	Yucca Flat
03-14-14	Switch Box	Housekeeping Waste	Engine Test Stand 1	Yucca Flat
03-14-15	Transformer	Housekeeping Waste	U-3kp	Yucca Flat
03-14-17	Transformer	Housekeeping Waste	Bunker, Unmarked	Yucca Flat
03-14-18	Transformer	Housekeeping Waste	3-03 Road at 3-05 Road	Yucca Flat
09-27-01	Transformer	Housekeeping Waste	Bunker Z-900	Yucca Flat
14-14-01	Transformer	Housekeeping Waste	Mine Mountain Road	Mine Mountain
14-14-02	Transformer	Housekeeping Waste	Mine Mountain Road	Mine Mountain
15-14-01	Transformer	Housekeeping Waste	Building 15-06	Oak Spring
15-14-02	Transformer	Housekeeping Waste	Gate 700C	Oak Spring
16-27-01	Transformer	Housekeeping Waste	Area 16 Substation	Tippipah Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 380 Areas 1,3,9,14,15,16,19,23 Housekeeping Transformer Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/18/1996**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
19-14-02	Transformer	Housekeeping Waste	U-19az	Ammonia Tanks
19-14-03	Transformers (4)	Housekeeping Waste	U-19x/U-19az	Ammonia Tanks
23-27-01	Transformer	Housekeeping Waste	Building 752	Camp Desert Rock
23-27-02	Transformer	Housekeeping Waste	Building 116	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 381 Areas 10,15,19,25 Housekeeping Gas Cylinder Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/25/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
10-99-02	Gas Cylinder	Housekeeping Waste	U-10aj G	Oak Spring
15-99-01	Gas Cylinder	Housekeeping Waste	Climax Hoist	Oak Spring
19-99-02	Gas Cylinder	Housekeeping Waste	19-4 Substation	Dead Horse Flat
19-99-03	Gas Cylinder	Housekeeping Waste	U-19q	Dead Horse Flat
19-99-04	Gas Cylinder	Housekeeping Waste	U-19zs	Dead Horse Flat
19-99-09	Gas Cylinders	Housekeeping Waste	U-19v	Ammonia Tanks
25-99-01	Gas Cylinder	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-02	Gas Cylinder	Housekeeping Waste	Test Cell C	Jackass Flats
25-99-03	Gas Cylinders (3)	Housekeeping Waste	Test Cell C	Jackass Flats
25-99-07	Gas Cylinders (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-08	Gas Cylinder	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-09	Gas Cylinders (4)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-10	Gas Cylinders (27)	Housekeeping Waste	X-Tunnel	Striped Hills
25-99-11	Gas Cylinders (14)	Housekeeping Waste	X-Tunnel	Striped Hills
25-99-13	Gas Cylinders (2)	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-14	Gas Cylinders (2)	Housekeeping Waste	E-MAD Facility	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/30/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-22-02	Drums; Gas Can	Housekeeping Waste	5-Story Tower	Yucca Flat
02-22-06	Buckets (38)	Housekeeping Waste	U-2ey	Oak Spring
02-24-09	Battery	Housekeeping Waste	Trailer 926	Oak Spring
03-22-18	Drum	Housekeeping Waste	U-3fd	Yucca Flat
03-22-19	Drum; Containers	Housekeeping Waste	U-3kp	Yucca Flat
03-22-28	Drums	Housekeeping Waste	U-3Lr	Yucca Flat
03-22-31	Drum; Batteries	Housekeeping Waste	U-3gg	Yucca Flat
03-24-09	Batteries (2)	Housekeeping Waste	U-3mf PS #2a	Yucca Flat
04-22-07	Buckets; Drums	Housekeeping Waste	U-4s	Yucca Flat
04-24-10	Battery	Housekeeping Waste	U-4s	Yucca Flat
05-22-27	Kerosene Cans	Housekeeping Waste	Frenchman Lake Spill Test	Frenchman Lake
05-22-36	Drums (4)	Housekeeping Waste	UE-5c Well	Frenchman Lake
05-24-02	Batteries (2)	Housekeeping Waste	Sugar Bunker	Frenchman Lake
05-99-03	Iron Casks (2)	Housekeeping Waste	Building F3-16c	Frenchman Lake
06-22-03	Drums (4)	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-04	Drums (8)	Housekeeping Waste	RSM 6-W9 and 6-W8	Plutonium Valley
06-22-22	Drums (2)	Housekeeping Waste	U-6b	Yucca Lake
06-22-34	Drum	Housekeeping Waste	Well 3 Yard	Yucca Lake
07-22-09	Drums (2)	Housekeeping Waste	Gate 7-1c	Yucca Flat
09-22-01	Drum	Housekeeping Waste	U-9 ITS W-24.5	Oak Spring
09-22-06	Drum	Housekeeping Waste	U-9z	Yucca Flat
09-22-17	Drum	Housekeeping Waste	U-9ct	Oak Spring
10-22-04	Drums (2)	Housekeeping Waste	U-10ay	Oak Spring
10-22-15	Drum	Housekeeping Waste	U-10m	Oak Spring
12-22-01	Drum	Housekeeping Waste	Electrical Storage Yard	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/30/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-22-35	Drum	Housekeeping Waste	Building 12-300	Rainier Mesa
12-22-36	Drums (6), Canister	Housekeeping Waste	Linemans Storage Yard	Rainier Mesa
12-24-07	Battery	Housekeeping Waste	G-Tunnel Trailer Park	Rainier Mesa
12-24-11	Battery	Housekeeping Waste	RSM 12 P 2	Rainier Mesa
12-24-15	Battery	Housekeeping Waste	Bus Park Area - Northwest	Rainier Mesa
12-24-20	Batteries	Housekeeping Waste	Building 12-300	Rainier Mesa
15-22-18	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-01	Battery	Housekeeping Waste	EPA Farm	Oak Spring
15-29-01	Drums; Cans	Housekeeping Waste	Climax Hoist	Oak Spring
16-24-05	Battery	Housekeeping Waste	Area 16 Camp	Tippipah Spring
18-22-02	Drums (3)	Housekeeping Waste	RSM 18 A 99	Scrugham Peak
18-22-09	Drums (10)	Housekeeping Waste	U-18d Sulky	Buckboard Mesa
18-22-10	Drum	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-22-12	Drum	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks
18-22-13	Drum	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-14	Drum	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks
18-22-17	Bucket	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks
18-24-03	Battery	Housekeeping Waste	Little Feller I	Buckboard Mesa
19-22-17	Drum	Housekeeping Waste	U-19af	Dead Horse Flat
19-22-19	Drum	Housekeeping Waste	Echo Peak Station	Ammonia Tanks
19-22-27	Metal Cans	Housekeeping Waste	Pahute Substation	Ammonia Tanks
19-29-02	Bag of Battery Fluid	Housekeeping Waste	Echo Peak Station	Ammonia Tanks
20-22-12	Drums (2)	Housekeeping Waste	RSM P 114	Silent Butte
20-22-25	Drums (5)	Housekeeping Waste	RSM 20 P 106	Silent Butte
20-24-06	Batteries (4)	Housekeeping Waste	U-20aq	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/30/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-22-01	Drum	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-22-06	Drums	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-22-08	Drums	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-22-09	Drums (16)	Housekeeping Waste	X-Tunnel	Striped Hills
25-22-10	Drums (5)	Housekeeping Waste	Y-Tunnel	Striped Hills
25-22-12	Drums	Housekeeping Waste	Building 4919	Jackass Flats
25-22-14	Drums (2)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-22-15	Drum	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-22-17	Bucket	Housekeeping Waste	MX Scrap Metal Yard	Amargosa Valley
25-24-15	Battery	Housekeeping Waste	Sanitary Landfill	Skull Mountain
25-29-06	Paint Can	Housekeeping Waste	X-Tunnel	Striped Hills
30-22-01	Drum	Housekeeping Waste	40 Mile Canyon	Topopah Spring NW

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 385 Archived - Area 6 Disposal Holes

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 398 Area 25 Spill Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/7/2003**

Closure Report Rev. 1 approved

The future use of any land related to this Corrective Action Unit (CAU) is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-25-02	Oil Spills	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-25-03	Oil Spills	Oil/Fuel Spills	Building 4838	Jackass Flats
25-25-04	Oil Spills	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-25-05	Oil Spills	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-25-06	Oil Spills	Oil/Fuel Spills	Drill Hole Wash Mon. Station	Busted Butte
25-25-07	Hydraulic Oil Spill(s)	Oil/Fuel Spills	X-Tunnel	Striped Hills
25-25-08	Hydraulic Oil Spill(s)	Oil/Fuel Spills	Y-Tunnel	Striped Hills
25-25-16	Diesel Spill (from CAS 25-01-02)	Oil/Fuel Spills	Building 3320	Jackass Flats
25-25-17	Subsurface Hydraulic Oil Spill	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-44-01	Fuel Spill	Oil/Fuel Spills	Fuel Storage Area	Jackass Flats
25-44-02	Spill	Other Spill Site	Test Cell A	Jackass Flats
25-44-03	Spill	Other Spill Site	Building 4838	Jackass Flats
25-44-04	Acid Spill (from CAS 25-01-01)	Other Spill Site	Building 3320	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 4 Archived - Area 6 Equipment Yard Landfill

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 400 Bomblet Pit and Five Points Landfill (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/17/1997**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-19-001-05PT	Ordnance Disposal Pit	Buried Ordnance Site	Five Points Intersection	Tonopah Test Range
TA-55-001-TAB2	Ordnance Disposal Pit	Buried Ordnance Site	Bunker 2 Road	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

<b>CAU Number: 401 Area 3 Gas Station Underground Storage Tank Site (TTR)</b>				
<b>Owner: NNSA / Industrial Sites - ERP</b>		<b>CAU Notice of Completion: 12/18/1995</b>		
<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-02-003-0357	Underground Storage Tank, Gas	Underground Storage Tank	First Gas Station, Area 3	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

<b>CAU Number: 402 Area 3 Building 0353 Underground Storage Tank Site (TTR)</b>				
<b>Owner: NNSA / Industrial Sites - ERP</b>			<b>CAU Notice of Completion: 12/18/1995</b>	

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-02-001-0353	Underground Storage Tank, Diesel	Underground Storage Tank	Building 0353	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 403 Area 3 Second Gas Station Underground Storage Tank (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/8/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-02-004-0360	Underground Storage Tanks	Underground Storage Tank	Second Gas Station	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 404 Roller Coaster Lagoons and Trench (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/18/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-03-001-TARC	Roller Coaster Lagoons	Sewage Lagoon	NW of Antelope Lake	Tonopah Test Range
TA-21-001-TARC	Roller Coaster N. Disposal Trench	Waste Disposal Trench	NW of Antelope Lake	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 405 Area 3 Septic Systems (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/14/2002**

Submitted as CADD/CR

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-05-002-SW03	Septic Waste System	Leachfield	Area 3	Tonopah Test Range
03-05-002-SW04	Septic Waste System	Leachfield	Area 3	Tonopah Test Range
03-05-002-SW07	Septic Waste System	Leachfield	Area 3	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 406 Area 3 Building 03-74 & Building 03-58 Underground Discharge Points (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/20/2000**

Document contains CAUs 406, 409  
 Submitted as CADD/CR. Document contains CAUs 406,  
 429.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-51-002-0374	Heavy Duty Shop UDP, Sumps	Underground Discharge Point	Building 0374	Tonopah Test Range
03-51-003-0358	UPS Building UDP	Underground Discharge Point	UPS Building, Area 3	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 407 Roller Coaster RadSafe Area (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 2/22/2002**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-23-001-TARC	Roller Coaster RadSafe Area	Rad Contamination Area	NW of Antelope Lake	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 409 Other Waste Sites (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/10/2001**

Submitted as CADD/CR. CR regulatory milestone not established prior to CADD/CR submittal.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
RG-24-001-RGCR	Battery Dump Site	Housekeeping Waste	Cactus Repeater	Tonopah Test Range
TA-53-001-TAB2	Septic Sludge Disposal Pit	Sludge Burial Pit	Area 3	Tonopah Test Range
TA-53-002-TAB2	Septic Sludge Disposal Pit	Sludge Burial Pit	Area 3	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 410 Waste Disposal Trenches (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/5/2004**

CADD/CR

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-19-001	Waste Disposal Site	Waste Disposal Site	Bldg 0385-T	Tonopah Test Range
09-21-001-TA09	Disposal Trenches	Waste Disposal Trench	Area 9	Tonopah Test Range
TA-19-002-TAB2	Debris Mound	Waste Disposal Site	Bunker 2	Tonopah Test Range
TA-21-002-TAAL	Disposal Trench	Waste Disposal Trench	S Antelope Lake	Tonopah Test Range
TA-21-003-TANL	Disposal Trench	Waste Disposal Trench	NEDS Lake	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 418 Areas 5,23,25,26 Underground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/18/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-02-01	UST 5-617-1	Underground Storage Tank	Building 617	Frenchman Lake
12-02-05	USTs 12-B-2	Underground Storage Tank	Area 12, Warehouse B	Rainier Mesa
23-02-09	UST 23-155-1	Underground Storage Tank	Building 155	Camp Desert Rock
25-02-11	UST 25-3124-1	Underground Storage Tank	TTF - Building 3124	Jackass Flats
25-02-12	UST 25-3127-1	Underground Storage Tank	Building 3127	Jackass Flats
26-02-04	UST 26-2201-2	Underground Storage Tank	Building 2201	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 419 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 423 **Area 3 Underground Discharge Point, Building 0360 (TTR)**

**Owner:** **NNSA / Industrial Sites - ERP**

**CAU Notice of Completion:** **10/20/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-02-002-0308	Underground Discharge Point	Underground Discharge Point	Building 0360	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 424 Area 3 Landfill Complexes (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/24/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-08-001-A301	Landfill Cell A3-1	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A302	Landfill Cell A3-2	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A303	Landfill Cell A3-3	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A304	Landfill Cell A3-4	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A305	Landfill Cell A3-5	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A306	Landfill Cell A3-6	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A307	Landfill Cell A3-7	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range
03-08-002-A308	Landfill Cell A3-8	Waste Dump	Area 3 Landfill Complex	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 425 Area 9 Main Lake Construction Debris Disposal Area (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 4/1/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
09-08-001-TA09	Construction Debris Disposal Area	Waste Dump	Area 9, Main Lake	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 426 Cactus Spring Waste Trenches (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/13/1999**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
RG-08-001-RGCS	Waste Trenches	Waste Dump	Cactus Spring Ranch	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 427 Area 3 Septic Waste Systems 2, 6 (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/27/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-05-002-SW02	Septic Waste System	Leachfield	Area 3	Tonopah Test Range
03-05-002-SW06	Septic Waste System	Leachfield	Area 3	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 428 Area 3 Septic Waste Systems 1, 5 (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 6/29/2001

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-05-002-SW01	Septic Waste System	Leachfield	Area 3	Tonopah Test Range
03-05-002-SW05	Septic Waste System	Leachfield	Area 3	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 429 Area 3 Building 03-55 & Area 9 Building 09-52 Underground Discharge Points (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/20/2000**

The future use of any land related to this Corrective Action Unit (CAU) , as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report and other CAU documentation unless appropriate concurrence is obtained in advance.

Document contains CAUs 406, 409  
 Submitted as CADD/CR. Document contains CAUs 406, 429.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-51-001-0355	Photo Shop UDP, Drains	Underground Discharge Point	Photo Shop	Tonopah Test Range
09-51-001-0952	Mobile Photographic Lab UDPs	Underground Discharge Point	Area 9	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 430 Buried DU Artillery Round #1 (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 3/11/1997

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-55-003-0960	Depleted Uranium Artillery Round	Buried Ordnance Site	S of Area 9	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 431 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 432 Archived - Prior to May 1996

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 442 Archived - Area 25 MX Salvage Yard Construction Landfill

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 444 Archived - Area 23 Mercury Bypass Disposal Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 448 Area 25 Underground Storage Tank**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/15/1996**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-02-04	Underground Storage Tank	Underground Storage Tank	Test Cell C	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 45 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/10/1996**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-24-05	Batteries (2)	Housekeeping Waste	U-2fg	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 450 Areas 11,12,23,25,26 & 27 Underground Storage Tanks and Spills**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/2/1998**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
11-02-03 (dup)	UST 11-2-1	Underground Storage Tank	Building 11-2	Plutonium Valley
11-25-01	Spill H920716B (from UST 11-2-1)	Oil/Fuel Spills	Building 11-2	Plutonium Valley
12-02-01	UST 12-13-1	Underground Storage Tank	Area 12 Camp, Building 12-13	Rainier Mesa
12-02-08	UST 12-26-1	Underground Storage Tank	Building 12-26	Rainier Mesa
12-25-06	Spill H910802A (from UST 12-26-1)	Oil/Fuel Spills	Building 12-26	Rainier Mesa
12-25-11	Spill H931130E (from UST 12-13-1)	Oil/Fuel Spills	Area 12 Camp, Building 12-13	Rainier Mesa
23-02-11	UST 23-752-2	Underground Storage Tank	Building 23-752	Camp Desert Rock
23-02-12	UST 23-752-3	Underground Storage Tank	Building 23-752	Camp Desert Rock
23-02-13	UST 23-BPY-1	Underground Storage Tank	Mercury	Camp Desert Rock
23-25-06	Spill H910503A (from USTs 23-752-2,3)	Oil/Fuel Spills	Building 23-752	Camp Desert Rock
23-25-07	Spill H941020C (from UST 23-BPY-1)	Oil/Fuel Spills	Mercury	Camp Desert Rock
25-02-14	UST 25-3102-1	Underground Storage Tank	Building 25-3102	Jackass Flats
25-02-15	UST 25-3102-2	Underground Storage Tank	Building 25-3102	Jackass Flats
25-02-16	UST 25-3102-4	Underground Storage Tank	Building 25-3102	Jackass Flats
25-02-17	UST 25-3123-1	Underground Storage Tank	Building 25-3123	Jackass Flats
25-02-18	UST 25-3129-1	Underground Storage Tank	Building 25-3129	Jackass Flats
25-25-10	Spill H920928B (from UST 25-3102-1,2)	Oil/Fuel Spills	Building 25-3102	Jackass Flats
25-25-11	Spill H940825E (from UST 25-3102-4)	Oil/Fuel Spills	Building 25-3102	Jackass Flats
25-25-12	Spill H940825D (from UST 25-3123-1)	Oil/Fuel Spills	Building 25-3123	Jackass Flats
25-25-13	Spill H941020D (from UST 25-3129-1)	Oil/Fuel Spills	Building 25-3129	Jackass Flats
26-02-02	UST 26-2104-1	Underground Storage Tank	Building 2104	Skull Mountain
26-25-01	Spill H920928A (from UST 26-2104-1)	Oil/Fuel Spills	Building 2104	Skull Mountain
27-02-01 (dup)	UST 27-5170-1	Underground Storage Tank	Building 5170	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 450 Areas 11,12,23,25,26 & 27 Underground Storage Tanks and Spills

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 3/2/1998

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
27-25-02	Spill H931130D (from UST 27-5170-1)	Oil/Fuel Spills	Building 5170	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 451 Archived - Area 12 Underground Storage Tank and Spill at Building 16

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 452 Area 25 Underground Storage Tanks and Spills**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/23/1998**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-02-19	UST 25-3152-1	Underground Storage Tank	Building 3152	Jackass Flats
25-02-20	UST 25-3101-1	Underground Storage Tank	Building 3101	Jackass Flats
25-02-21	UST 25-3102-3	Underground Storage Tank	Building 3102	Jackass Flats
25-25-09	Spill H940825C (from UST 25-3101-1)	Oil/Fuel Spills	Building 3101	Jackass Flats
25-25-14	Spill H940314E (from UST 25-3102-3)	Oil/Fuel Spills	Building 3102	Jackass Flats
25-25-15	Spill H941020E (from UST 25-3152-1)	Oil/Fuel Spills	Building 3152	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 453 Area 9 UXO Landfill (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/10/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
09-55-001-0952	Area 9 Landfill	Buried Ordnance Site	Area 9	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 454 Area 12 Underground Storage Tanks and Spills Area 12 Camp**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/23/1998**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-02-06	UST 12-B-3	Underground Storage Tank	B-Tunnel Portal	Rainier Mesa
12-02-07	UST 12-B-1	Underground Storage Tank	B-Tunnel Portal	Rainier Mesa
12-02-09	UST 12-COMM-1	Underground Storage Tank	Communication Bldg.	Rainier Mesa
12-25-08	Spill H950524F (from UST 12-B-1)	Oil/Fuel Spills	B-Tunnel Portal	Rainier Mesa
12-25-09	Spill 960722-02 (from UST 12-B-3)	Oil/Fuel Spills	B-Tunnel Portal	Rainier Mesa
12-25-10	Spill H950919A (from UST 12-COMM-1)	Oil/Fuel Spills	Communication Bldg.	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 455 Archived - Area 23 Underground Storage Tanks and Spill at Building 115

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 456 Area 23 Underground Storage Tank and Spill at the NTSO Building**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/20/1998**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-02-03	UST 23-111-1	Underground Storage Tank	Building 111/NTSO	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 457 Areas 6, 11, 15, 26 and 27 Underground Storage Tanks**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/15/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-02-05	UST 06-YA-1	Underground Storage Tank	Area 6 Camp	Yucca Lake
11-02-03	UST 11-1-1	Underground Storage Tank	Area 11, Building 1	Plutonium Valley
11-02-04	UST 11-2-2	Underground Storage Tank	Area 11, Building 2	Plutonium Valley
15-02-02	UST 15-CM-1	Underground Storage Tank	Climax Mine	Oak Spring
26-02-05	UST 26-2101-1	Underground Storage Tank	Building 2101	Skull Mountain
26-02-06	UST 26-2101-2	Underground Storage Tank	Building 2101	Skull Mountain
26-02-07	UST 26-2102-1	Underground Storage Tank	Building 2102	Skull Mountain
26-02-08	UST 26-2204-1	Underground Storage Tank	Building 2204	Skull Mountain
26-02-09	UST 26-2205-1	Underground Storage Tank	Building 2205	Skull Mountain
27-02-01	UST 27-5310-1/Spill H940314F	Underground Storage Tank	Building 5310	Cane Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 458 Archived - Area 6 Drums of Radioactive Material from CP 50 Hot Park

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 459 Archived - Area 6 Housekeeping Sites, Area 6 Camp

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 46 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/4/1996**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-26-03	Lead Brick; Sheets; Pieces	Housekeeping Waste	Blockhouse 2-353	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 460 Archived - Area 6 Diesel Tank and Spill, Upper Monastery Building  
**Owner:** NNSA / Industrial Sites - ERP **CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 461 Test Area JTA Sites (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/20/1999**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-52-002-TAML	Depleted Uranium Impact Site	DU Surface Debris	Main Lake	Tonopah Test Range
TA-52-003-0960	Depleted Uranium Artillery Round #2	DU Surface Debris	S of Area 9	Tonopah Test Range
TTR-001	1987 W-79 JTA	DU Surface Debris	Unknown	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 464 Areas 2,9 Underground Storage Tanks and Spills Bunkers 2-300, 9-300**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/17/1998**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-02-03	UST 2-300-1	Underground Storage Tank	Bunker 300	Oak Spring
09-02-01	UST 9-300-1	Underground Storage Tank	Building 300	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 468 Archived - Area 25 Waste Disposal Location

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 47 Area 1 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/25/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-22-03	Drums	Housekeeping Waste	UE-1r Water Well	Yucca Flat
01-22-04	Drum	Housekeeping Waste	U-1e	Yucca Flat
01-24-01	Batteries	Housekeeping Waste	Area 1 Camp	Tippipah Spring
01-24-02	Batteries	Housekeeping Waste	RSM O-39	Yucca Flat
01-24-04	Battery	Housekeeping Waste	U-1e Drill Hole	Yucca Flat
01-99-02	Solvent Cans	Housekeeping Waste	Vault 1-21	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 474 Archived

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 48 Area 3 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/25/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-22-13	Drum	Housekeeping Waste	U-3di	Yucca Flat
03-22-15	Drum	Housekeeping Waste	U-3jv	Yucca Flat
03-22-23	Drums	Housekeeping Waste	U-3ev-2 Shaft	Paiute Ridge
03-22-38	Drum/Cans	Housekeeping Waste	U-3eu	Yucca Flat
03-22-39	Gas Can	Housekeeping Waste	U-3ee/Eco. Study	Yucca Flat
03-22-42	Drums; Buckets	Housekeeping Waste	Area 3 Subdock	Yucca Flat
03-22-43	Drums; Buckets	Housekeeping Waste	Area 3 Subdock	Yucca Flat
03-24-02	Battery	Housekeeping Waste	U-3hj	Yucca Flat
03-24-03	Batteries/Bucket/Drum	Housekeeping Waste	U-3dg	Yucca Flat
03-24-04	Batteries	Housekeeping Waste	U-3kp	Yucca Flat
03-24-05	Batteries (2)	Housekeeping Waste	U-3ev-3 Shaft	Paiute Ridge
03-24-06	Batteries	Housekeeping Waste	U-3by	Yucca Flat
03-24-07	Battery	Housekeeping Waste	U-3jf	Yucca Flat
03-24-12	Battery; Buckets; Can	Housekeeping Waste	U-3kz	Yucca Flat
03-24-16	Batteries (2)	Housekeeping Waste	U-3cv	Yucca Flat
03-24-17	Battery Pack	Housekeeping Waste	U-3bq	Yucca Flat
03-24-18	Batteries	Housekeeping Waste	Area 3 Subdock	Yucca Flat
03-24-19	Battery	Housekeeping Waste	Area 3 Subdock	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 485 Cactus Spring Ranch Pu and DU Site (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 10/6/1998

Preliminary Assessment Report replaced CAIP.  
 Submitted as CADD/CRCR Milestone due date not established prior to CADD/CR submittal.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-39-001-TAGR	Cactus Spring Ranch, Soil Contam.	Rad Contamination Area	W of Target Areas	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 486 Double Tracks RadSafe Area (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/18/2001**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
71-23-001-71DT	Double Tracks RadSafe Area	Rad Contamination Area	Nellis Range 71	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 487 Thunderwell Site (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/17/2001**

Post-Closure Monitoring is required for this CAU.  
 Submitted as CADD/CR

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
RG-26-001-RGRV	Thunderwell Site	Waste Dump	Thunderwell Site	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 488 Archived - Davis Gun Site - Mellan (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 489 WWII UXO Sites (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 6/23/2006**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
RG-55-001-RGMN	WWII Ordnance Site	Buried Ordnance Site	Mellan Airstrip	Tonopah Test Range
RG-55-002-RGHS	WWII Ordnance Site	Buried Ordnance Site	H-Site Road	Tonopah Test Range
RG-55-003-RG36	WWII Ordnance Site	Buried Ordnance Site	Gate 36E	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 49 Area 4 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/25/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-22-01	Drums; Piping	Housekeeping Waste	U-4as	Yucca Flat
04-22-02	Drums	Housekeeping Waste	Test Well D	Yucca Flat
04-22-06	Drum	Housekeeping Waste	U-4as	Yucca Flat
04-24-01	Batteries; Drum	Housekeeping Waste	U-4L	Yucca Flat
04-24-02	Batteries (2)	Housekeeping Waste	Test Well D	Yucca Flat
04-24-03	Battery	Housekeeping Waste	U-4au	Yucca Flat
04-24-04	Batteries	Housekeeping Waste	U-4at	Yucca Flat
04-24-05	Batteries (2)	Housekeeping Waste	U-4j PS #1A	Yucca Flat
04-24-06	Battery	Housekeeping Waste	U-4c	Yucca Flat
04-24-07	Battery	Housekeeping Waste	Building 4-352	Yucca Flat
04-24-11	Battery	Housekeeping Waste	Tippipah Highway	Rainier Mesa
04-26-01	Lead Bricks	Housekeeping Waste	U-4i PS #1A	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 490 Station 44 Burn Area (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/19/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-56-001-03BA	Fire Training Area	Fire Training Area	Area 3	Tonopah Test Range
03-58-001-03FN	Sandia Service Yard	Housekeeping Waste	Area 3	Tonopah Test Range
09-54-001-09L2	Gun Propellant Burn Area	Solid Propellant Burn Site	Area 9	Tonopah Test Range
RG-56-001-RGBA	Station 44 Burn Area	Fire Training Area	Station 44	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 491 Archived - Bunker 2 Debris Mound and NEDS Trench (TTR)  
**Owner:** NNSA / Industrial Sites - ERP **CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 492 Archived - South Antelope Lake Disposal Trench (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 493 Archived - Colimbo Detonation Site (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 494 Archived - Rocket Propellant Burn Area - NEDS Lake (TTR)  
**Owner:** NNSA / Industrial Sites - ERP **CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 495 Unconfirmed JTA Sites (TTR)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/14/1999**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-55-006-09SE	Buried Artillery Round	Buried Ordnance Site	Test Area	Tonopah Test Range
TA-55-007-09SE	Buried Artillery Round	Buried Ordnance Site	Test Area	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 496 Buried Rocket Site - Antelope Lake (TTR)

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 12/21/2005

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
TA-55-008-TAAL	Buried Rocket	Buried Ordnance Site	Antelope Lake	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 497 Archived - Area 15 EPA Farm Liquid Manure Tank

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 498 Archived - Area 11 Radiation Area Drums

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 499 Hydrocarbon Spill Site, TTR**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/14/2002**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
RG-25-001-RD24	Radar 24 Diesel Spill Site	Oil/Fuel Spills	Radar 24 Site	Tonopah Test Range

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 5 Landfills**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/27/2006**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-15-01	Sanitary Landfill	Sanitary Landfill	5-05 Road	Frenchman Lake
05-16-01	Landfill	Waste Dump	Building 5-7	Frenchman Lake
06-08-01	Landfill	Waste Dump	Equipment Yard	Yucca Lake
06-15-02	Sanitary Landfill	Sanitary Landfill	Yucca Lake	Yucca Lake
06-15-03	Sanitary Landfill; Burn Pit	Sanitary Landfill	Yucca Lake	Yucca Lake
12-15-01	Sanitary Landfill	Sanitary Landfill	Area 12 Camp	Rainier Mesa
20-15-01	Landfill	Sanitary Landfill	RSM 20 A 125	Scrugham Peak
23-15-03	Disposal Site	Waste Dump	Mercury Bypass	Camp Desert Rock

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 50 Area 5 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/25/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-22-02	Drums	Housekeeping Waste	Old Mercury Highway	Mercury
05-22-03	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake
05-22-09	Drum	Housekeeping Waste	RSM 5 D 10	Frenchman Lake
05-22-10	Drum	Housekeeping Waste	Booster Station #4	Mercury
05-22-11	Containers	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-12	Drum	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-16	Drum	Housekeeping Waste	GMX Facility	Frenchman Lake
05-22-18	Drum	Housekeeping Waste	Booster Station #4	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 500 Test Cell A Septic System**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/12/2001**

Submitted as CADD/CR

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-04-05	Septic Tank/System	Septic Tank	Test Cell A	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 501 Archived - Active Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/24/2003**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 502 Archived - EMAD Sanitary Leachfield System

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 505 Archived - Area 23 Fire Equipment Building

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 506 Archived - Area 6 Waste Disposal Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 507 Archived - Area 12 Waste Dump, Tunnel Portal Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 508 Archived - Areas 19 and 20 Radiation Contaminated Areas**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/24/2003**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 509 Archived - Area 25 Radiation Contamination Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 51 Area 7 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/25/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
07-24-06	Battery	Housekeeping Waste	U-7e	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 510 Archived - Area 3 Contamination Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 511 Waste Dumps (Piles & Debris)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 1/3/2006**

CADD/CR

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-08-02	Waste Dump (Piles & Debris)	Waste Disposal Site	U-3ev-4 Shaft	Paiute Ridge
03-99-11	Waste Dump (Piles)	Waste Dump	U-3kz PS #1A	Yucca Flat
03-99-12	Waste Dump (Piles & Debris)	Waste Dump	Area 3 Subdock	Yucca Flat
04-99-04	Contaminated Trench/Berm	Contaminated Soil Site	U-4q	Yucca Flat
06-16-01	Waste Dump (Piles & Debris)	Waste Dump	Yucca Lake	Yucca Lake
06-17-02	Scattered Ordnance/Automatic Weapons Range	Waste Dump	RSM 6 W 9	Plutonium Valley
07-08-01	Contaminated Mound	Contaminated Soil Site	Bunker 7-800	Yucca Flat
18-99-10	Ammunition Dump	Ordnance Site	S of Pahute Airstrip	Buckboard Mesa
19-19-03	Waste Dump (Piles & Debris)	Waste Dump	Mud Plant Disposal	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 512 Archived - Area 10 RAD Contamination Area

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 513 Archived - Area 12 Mudpits**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/24/2003**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 514 Archived - Area 6 Underground Discharge Points

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 515 Archived - Area 20 Photochemical Drain**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/24/2003**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 516 Septic Systems and Discharge Points**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/20/2007**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-59-01	Bldg 3C-36 Septic System	Septic System	Area 3 Camp, Building 3C-36	Yucca Flat
03-59-02	Bldg 3C-45 Septic System	Septic System	Area 3 Camp, Building 3C-45	Yucca Flat
06-51-01	Sump and Piping	Underground Discharge Point	Well 3 Yard, Bldg. 660	Yucca Lake
06-51-02	Clay Pipe and Debris	Housekeeping Waste	Well 3 Yard, Bldg. 660	Yucca Lake
06-51-03	Clean Out Box and Piping	Underground Discharge Point	Well 3 Yard, Bldg. 660	Yucca Lake
22-19-04	Vehicle Decontamination Area	Decon Area	Desert Rock Airport	Point of Rocks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 517 Archived - Area 12 Tunnel Effluent

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 518 Archived - Area 15 Ponds**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/24/2003**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 519 Archived - Area 2 Underground Storage Tank

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 52 Area 18 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
18-01-03	Drum used as AST	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 520 Archived - Areas 12 and 15 Aboveground Storage Tanks

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 521 Archived - Area 25 Underground Storage Tank

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 522 Archived - Area 4 Caustic Lime

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 523 Housekeeping Waste**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/15/2003**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
04-22-04	Drums	Housekeeping Waste	U-4h	Yucca Flat
12-22-20	Drum	Housekeeping Waste	T-Tunnel Pond #4	Rainier Mesa
16-22-29	Drum	Housekeeping Waste	Area 16 Runway	Tippipah Spring
18-22-24	Bottles - Lithium Bromide	Housekeeping Waste	Water Sump Shack	Scrugham Peak
19-22-02	Drums (3)	Housekeeping Waste	U-19ar	Dead Horse Flat
19-22-04	Drums (3)	Housekeeping Waste	U-19ay	Dead Horse Flat
19-22-31	Can	Housekeeping Waste	Substation 19-10	Dead Horse Flat
19-22-32	Can; Debris	Housekeeping Waste	U-19r	Dead Horse Flat
20-22-03	Drums	Housekeeping Waste	U-20p	Trail Ridge
20-22-10	Drum	Housekeeping Waste	U-20ax	Scrugham Peak
20-22-20	Drum	Housekeeping Waste	U-20az	Scrugham Peak
20-22-27	Bucket	Housekeeping Waste	Area 20 Water Sump	Silent Butte
20-22-28	Drums	Housekeeping Waste	U-20ax	Scrugham Peak
20-22-29	Bucket	Housekeeping Waste	U-20ar	Silent Butte
20-26-01	Lead Pellets	Housekeeping Waste	U-20ar	Silent Butte

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 524 Area 25 Housekeeping Waste**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/5/2000**

Closure Report Rev. 1 approved

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-22-18	Bucket	Housekeeping Waste	Test Cell C Turnoff	Jackass Flats
25-22-19	Drums (20)	Housekeeping Waste	Engine Test Stand/Road K	Jackass Flats
25-22-20	Cans (25)	Housekeeping Waste	R-MAD Facility	Jackass Flats
25-26-27	Lead Bricks	Housekeeping Waste	Bren Tower	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 525 Archived - Areas 12, 16, 18, and 27 Housekeeping Waste

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 526 Archived - Waste Disposal Site

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 527 Horn Silver Mine**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/23/2004**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
26-20-01	Contaminated Waste Dump #1	Waste Disposal Site	Horn Silver Mine	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 528 Polychlorinated Biphenyls Contamination**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 10/17/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-27-03	Polychlorinated Biphenyls Surface Contamination	PCB	Building 3210	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 529 Area 25 Contaminated Materials**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/18/2004**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-23-17	CONTAMINATED WASH	Rad Contamination Area	NW of Test Cell C	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 53 Area 22 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
22-19-01	Trash Dump	Waste Disposal Site	Weather Station Rock	Point of Rocks

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 538 Spill Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 3/5/2007**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-21-01	Epoxy Tar Pit	Waste Disposal Trench	East of U-2ao Crater	Oak Spring
03-25-04	Hydrocarbon Stain	Oil/Fuel Spills	Ironworkers Yard	Yucca Flat
06-09-01	Cement Washdown	Mud Pit	Well 3 Yard	Yucca Lake
06-44-05	Diesel Spill from Tank #38061	Oil/Fuel Spills	Upper Monastery at 6-04 Rd	Yucca Lake
06-44-06	Spill Site with Hydrocarbons	Other Spill Site	Area 6 CP Complex	Yucca Lake
12-29-06	Spill Site	Oil/Fuel Spills	Area 12 Lineman Shop	Rainier Mesa
23-25-01	Oil Stains	Oil/Fuel Spills	Building 503	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 54 Area 3 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-22-05	Drum	Housekeeping Waste	U-3Lc	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 542 Disposal Holes**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 4/27/2007**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-20-07	UD-3a Disposal Hole	Injection Well	West of U-3ah/at Landfill	Yucca Flat
03-20-09	UD-3b Disposal Hole	Injection Well	West of U-3ah/at Landfill	
03-20-10	UD-3c Disposal Hole	Injection Well	West of U-3amS-4	
03-20-11	UD-3d Disposal Hole	Injection Well	North of U-3bc	
06-20-03	UD-6 and UD-6s Disposal Holes	Injection Well	NW of U-3auS Landfill	Yucca Flat
08-20-01	Injection Well Surface Release	Surface Release Point	U-8d	Oak Spring
09-20-03	Injection Well Surface Release	Surface Release Point	U-9 ITS Y-30 PS 19	Oak Spring
20-20-02	Injection Well Surface Release	Surface Release Point	U-20av PS #1	Scrugham Peak

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 55 Area 4 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
04-22-03	Drums	Housekeeping Waste	Bunker 4-300	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 551 Area 12 Muckpiles**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/18/2006**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU. FY06, FY07, and FY08 Planned Milestones Approved by NDEP on 05/01/2006

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
12-01-09	Aboveground Storage Tank and Stain	Aboveground Storage Tank	Generator Station 12-65	
12-06-05	U-12b Muckpile	Muckpile	U-12b Portal	Rainier Mesa
12-06-07	Muckpile	Muckpile	U-12c,d,f	Rainier Mesa
12-06-08	Muckpile	Muckpile	U-12b Portal	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 552 Area 12 Muckpile and Ponds**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 9/23/2005**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.  
 CADD/CR

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
12-23-05	Ponds	Tunnel Pond	G-Tunnel	Rainier Mesa

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 554 Area 23 Release Site**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 7/19/2005**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-02-08	USTs 23-115-1,2,3/Spill 530-90-002	Underground Storage Tank	Building 115	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 56 Area 5 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
05-22-05	Drum	Housekeeping Waste	Building F3-16b	Frenchman Lake
05-22-08	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake
05-22-19	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-25	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-26	Drums (2)	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-29	Drum	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-33	Bucket	Housekeeping Waste	Cambric Ditch	Frenchman Lake
05-22-34	Buckets	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-22-35	Drum	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-24-01	Batteries (12)	Housekeeping Waste	Bunker F-370	Frenchman Lake
05-24-03	Battery	Housekeeping Waste	Gate 200	Mercury
05-24-04	Batteries (2)	Housekeeping Waste	5B Pond	Frenchman Lake
05-24-05	Battery	Housekeeping Waste	5-01 Road	Frenchman Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 57 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-22-20	Drum	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-27	Drum	Housekeeping Waste	CP-50	Yucca Lake
06-24-01	Batteries (2)	Housekeeping Waste	RadSafe Trailer	Yucca Lake
06-24-02	Battery	Housekeeping Waste	U-6e	Yucca Lake
06-26-02	Lead Sheets; Brick	Housekeeping Waste	CP-50	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 58 Area 7 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
07-22-03	Drums; Buckets	Housekeeping Waste	U-7bk	Yucca Flat
07-22-04	Buckets	Housekeeping Waste	U-7bh	Yucca Flat
07-22-05	Bucket	Housekeeping Waste	U-7bh	Yucca Flat
07-22-06	Buckets	Housekeeping Waste	UE-7L	Yucca Flat
07-22-07	Drum	Housekeeping Waste	U-7an	Yucca Flat
07-22-08	Drum	Housekeeping Waste	U-7bu	Yucca Flat
07-22-10	Drums (2)	Housekeeping Waste	UE-7ns	Yucca Flat
07-24-04	Batteries (3)	Housekeeping Waste	UE-7ns	Yucca Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 59 Area 8 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
08-22-02	Drum	Housekeeping Waste	U-8m	Oak Spring
08-22-03	Drums (2)	Housekeeping Waste	U-8d	Oak Spring
08-24-01	Batteries (2)	Housekeeping Waste	8-2 Substation	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 6 Archived - DOE/DP Closed Landfill Area 6

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 60 Area 9 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-22-04	Drum	Housekeeping Waste	U-9bu	Yucca Flat
09-22-10	Drums (2)	Housekeeping Waste	U-9x	Yucca Flat
09-22-11	Drums (4)	Housekeeping Waste	U-9bn	Yucca Flat
09-22-12	Drum	Housekeeping Waste	U-9bj	Yucca Flat
09-22-14	Drums (5)	Housekeeping Waste	9-356 Bunker	Yucca Flat
09-24-01	Battery	Housekeeping Waste	9-300 Bunker	Yucca Flat
09-24-03	Battery	Housekeeping Waste	U-9cv	Yucca Flat
09-26-01	Lead Brick	Housekeeping Waste	9-300 Bunker	Yucca Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 61 Area 11 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
11-22-04	Drums (3), Buckets (11)	Housekeeping Waste	Tweezer Facility	Plutonium Valley
11-22-06	Drums; Buckets; Battery	Housekeeping Waste	Tweezer Facility	Plutonium Valley

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 62 Area 14 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
14-24-01	Battery	Housekeeping Waste	RSM SM 14-9	Mine Mountain

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 63 Area 15 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
15-22-02	Drums (8)	Housekeeping Waste	U-15e/Blower Shaft	Oak Spring
15-22-07	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-08	Drum, Gas Can	Housekeeping Waste	Climax Hoist Dump	Oak Spring
15-22-10	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-11	Drum	Housekeeping Waste	EPA Farm	Oak Spring
15-22-12	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-13	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-14	Drum	Housekeeping Waste	Tub Springs	Oak Spring
15-22-15	Drums (3)	Housekeeping Waste	EPA Farm	Oak Spring
15-22-17	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-19	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-20	Drums (5)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-21	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-23	Gas Cans	Housekeeping Waste	RSM G 7	Oak Spring
15-22-24	Drum	Housekeeping Waste	RSM G 7	Oak Spring
15-22-25	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-27	Drums (3)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-02	Batteries (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-03	Battery	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-04	Battery; Bucket	Housekeeping Waste	Climax Mine	Oak Spring
15-24-05	Batteries (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-06	Battery	Housekeeping Waste	RSM 15 G 5	Oak Spring
15-26-01	Lead Bricks	Housekeeping Waste	Climax Hoist	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 64 Area 16 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
16-22-05	Drums (9)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-06	Drum	Housekeeping Waste	Area 16 Powerline Road	Tippipah Spring
16-22-13	Drum	Housekeeping Waste	Area 16 Camp	Tippipah Spring
16-22-21	Drum, Can	Housekeeping Waste	Area 16 Camp	Tippipah Spring
16-24-06	Batteries (2)	Housekeeping Waste	Area 16 Camp	Tippipah Spring
16-24-07	Battery	Housekeeping Waste	Area 16 Camp	Tippipah Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 65 Area 17 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
17-22-01	Drum	Housekeeping Waste	RSM 12 M 191	Rainier Mesa
17-22-02	Drum	Housekeeping Waste	RSM 12 M 191	Rainier Mesa
17-22-03	Drum	Housekeeping Waste	RSM 12 M 191	Rainier Mesa

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 66 Area 18 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
18-22-03	Drums (2)	Housekeeping Waste	UE-18r	Scrugham Peak
18-22-07	Drums (3)	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-22-11	Drum	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-22-15	Bucket	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-16	Bucket	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-18	Drums (8)	Housekeeping Waste	Well #8	Ammonia Tanks
18-22-20	Drum	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-22-23	Drum	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-06	Batteries (4)	Housekeeping Waste	U-18d Sulky	Buckboard Mesa
18-24-07	Batteries (3)	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-24-08	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-09	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 67 Area 19 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-22-06	Drums (2)	Housekeeping Waste	U-19au	Dead Horse Flat
19-22-07	Drum, Bucket	Housekeeping Waste	U-19aa	Ammonia Tanks
19-22-09	Drum	Housekeeping Waste	U-19ak	Dead Horse Flat
19-22-10	Drum	Housekeeping Waste	RSM P 55	Ammonia Tanks
19-22-14	Drums (7)	Housekeeping Waste	19-15 Substation	Dead Horse Flat
19-22-20	Drum	Housekeeping Waste	UE-19m	Dead Horse Flat
19-22-21	Drum	Housekeeping Waste	U-19g	Silent Butte
19-22-22	Drum	Housekeeping Waste	U-19ar	Dead Horse Flat
19-24-02	Battery	Housekeeping Waste	U-19ax	Dead Horse Flat
19-24-03	Battery	Housekeeping Waste	U-19au	Silent Butte
19-24-04	Battery	Housekeeping Waste	U-19av	Silent Butte
19-24-06	Batteries (2)	Housekeeping Waste	U-19aa	Ammonia Tanks
19-26-01	Lead Ingot	Housekeeping Waste	U-19av	Silent Butte

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 68 Area 20 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
20-22-01	Drums (2)	Housekeeping Waste	U-20m	Trail Ridge
20-22-11	Drum	Housekeeping Waste	U-20ax	Scrugham Peak
20-22-15	Drum	Housekeeping Waste	U-20af	Silent Butte
20-22-19	Drum	Housekeeping Waste	U-20ab	Silent Butte
20-22-22	Drum	Housekeeping Waste	U-20b	Silent Butte
20-22-24	Drums	Housekeeping Waste	U-20aw	Silent Butte
20-24-02	Battery	Housekeeping Waste	U-20p	Trail Ridge
20-24-08	Battery	Housekeeping Waste	U-20ao	Scrugham Peak

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 69 Area 23 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-24-01	Batteries (2)	Housekeeping Waste	Building 503 Parking	Mercury
23-24-02	Battery	Housekeeping Waste	Building 155	Mercury
23-26-01	Lead Brick	Housekeeping Waste	Quonset Hut, Gate 20	Mercury

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 7 Archived - Area 12 Camp Landfill

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 70 Area 25 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-22-05	Drum of Steel Balls	Housekeeping Waste	Building 3152	Jackass Flats
25-24-01	Batteries (12)	Housekeeping Waste	Test Cell C	Jackass Flats
25-24-02	Batteries (6)	Housekeeping Waste	Building 3219	Jackass Flats
25-24-03	Batteries (56 Locomotive)	Housekeeping Waste	Motor Drive Building	Jackass Flats
25-24-04	Batteries (3)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-24-05	Batteries (8)	Housekeeping Waste	Building 3219	Jackass Flats
25-24-06	Batteries (31)	Housekeeping Waste	Test Cell C Building	Jackass Flats
25-24-07	Batteries (26)	Housekeeping Waste	Test Cell A	Jackass Flats
25-24-08	Batteries (2)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-24-09	Batteries (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-24-10	Batteries (6)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-24-12	Batteries (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-01	Lead	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-04	Lead Bricks	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-05	Lead Bricks (175)	Housekeeping Waste	Test Cell C	Jackass Flats
25-26-07	Lead Bricks (172)	Housekeeping Waste	Test Cell C	Jackass Flats
25-26-09	Lead Bricks (4)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-26-11	Lead Bricks (30)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-12	Lead Bricks (339)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-13	Lead Shot	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-14	Lead Bricks (10)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-16	Lead Bricks and Sheets	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-17	Lead Bricks and Sheets	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-18	Lead Shot	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-19	Lead Bricks (25)	Housekeeping Waste	Building 4919	Jackass Flats

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 70 Area 25 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-26-20	Lead Bricks (52)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-21	Lead Bricks (3)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-26-22	Lead Sheets (2)	Housekeeping Waste	Building 2105	Skull Mountain

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 71 Area 30 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
30-24-01	Battery	Housekeeping Waste	40 Mile Canyon	Buckboard Mesa

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 72 Area 26 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
26-26-01	Lead Bricks (25)	Housekeeping Waste	Building 2105	Skull Mountain

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 73 Area 19 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
19-29-01	Concrete Hardener (5 bags)	Housekeeping Waste	U-19ay PS #1A	Dead Horse Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 74 Area 25 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-29-10	Chemicals (paint and oil)	Housekeeping Waste	E-MAD Facility	Jackass Flats

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 75 Area 1 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
01-22-01	Drum	Housekeeping Waste	Bunker 1-61	Yucca Flat
01-26-01	Lead Sheets (2)	Housekeeping Waste	Building 1-31.1E2	Yucca Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 76 Area 2 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
02-22-11	Drums	Housekeeping Waste	Bunker 2-61	Rainier Mesa
02-26-08	Lead Sheets	Housekeeping Waste	LRL White Elephant	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 77 Area 3 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
03-22-01	Bucket	Housekeeping Waste	U-3mn	Yucca Flat
03-22-02	Bucket	Housekeeping Waste	U-3kc	Yucca Flat
03-22-03	Drum; Bucket	Housekeeping Waste	U-3fe	Yucca Flat
03-22-04	Drum	Housekeeping Waste	U-3kv	Yucca Flat
03-22-08	Plastic Bottle	Housekeeping Waste	U-3m 01	Paiute Ridge
03-22-09	Drum	Housekeeping Waste	U-3fw	Paiute Ridge
03-22-16	Gas Can	Housekeeping Waste	U-3hf	Yucca Flat
03-22-20	Drum	Housekeeping Waste	Building 3-355	Paiute Ridge
03-24-01	Battery	Housekeeping Waste	U-3lx	Yucca Flat
03-24-13	Batteries (3)	Housekeeping Waste	U-3gg	Yucca Flat
03-24-14	Battery	Housekeeping Waste	U-3mf	Yucca Flat
03-24-20	Battery	Housekeeping Waste	WOD Storage Facility	Yucca Flat
03-26-02	Lead Bricks	Housekeeping Waste	WOD Storage Facility	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 78 Area 5 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
05-22-14	Drum	Housekeeping Waste	GMX Facility	Frenchman Lake
05-22-28	Drum with Solid Contents	Housekeeping Waste	Burma Road Barricade	Cane Spring
05-22-31	Drums (Buried)	Housekeeping Waste	RSM 5 E 3	Frenchman Lake
05-22-32	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 79 Area 6 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
06-22-05	Drums (3)	Housekeeping Waste	USWB Station	Yucca Lake
06-22-09	Plastic Can	Housekeeping Waste	Yucca Lake, east side	Yucca Lake
06-22-16	Drums (3)	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-25	Paint Buckets	Housekeeping Waste	CP-50	Yucca Lake
06-22-31	Drums (5)	Housekeeping Waste	CP-50	Yucca Lake
06-24-03	Batteries	Housekeeping Waste	Yucca Lake	Yucca Lake

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 8 Archived - Area 20 Buckboard Mesa Road Landfill

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 80 Area 7 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
07-22-11	Drum	Housekeeping Waste	Bunker 7-356	Paiute Ridge
07-24-01	Battery	Housekeeping Waste	UE-7L	Yucca Flat
07-24-05	Battery; Debris	Housekeeping Waste	Bunker 7-800	Yucca Flat
07-26-01	Lead Bricks (4)	Housekeeping Waste	Bunker 7-235	Yucca Flat

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 81 Area 8 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
08-22-01	Drum	Housekeeping Waste	1 mile west of Sedan	Oak Spring
08-24-06	Battery	Housekeeping Waste	U-8a	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 82 Area 9 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
09-22-05	Drum	Housekeeping Waste	U-9 ITS 29.2	Oak Spring
09-22-07	Drum	Housekeeping Waste	U-9i	Yucca Flat
09-22-08	Drums (2)	Housekeeping Waste	U-9bo Crater	Yucca Flat
09-22-09	Drum	Housekeeping Waste	U-9by	Oak Spring
09-22-15	Drum	Housekeeping Waste	9-800 Bunker	Oak Spring
09-22-16	Drum	Housekeeping Waste	U-9ct	Oak Spring
09-24-02	Battery; Drum	Housekeeping Waste	U-9 ITS V-26	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 83 Area 10 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
10-22-03	Drum	Housekeeping Waste	U-10aw	Oak Spring
10-22-23	Drum; Stains	Housekeeping Waste	U-10am #1	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 84 Area 15 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
15-22-03	Drums; Buckets	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-09	Drums (12)	Housekeeping Waste	Climax Hoist	Oak Spring

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 85 Area 18 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
18-22-21	Bucket	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-10	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-11	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks

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**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 86 Area 19 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
19-22-03	Drums (2)	Housekeeping Waste	U-19ay	Dead Horse Flat
19-22-12	Drum	Housekeeping Waste	RSM 19 R 30	Dead Horse Flat
19-22-13	Drum	Housekeeping Waste	19-02 Road	Ammonia Tanks
19-22-15	Drum	Housekeeping Waste	U-19af	Ammonia Tanks
19-22-24	Drum	Housekeeping Waste	Echo Peak Station	Ammonia Tanks
19-22-26	Drum	Housekeeping Waste	RSM 19 P 100	Silent Butte
19-24-07	Batteries (4)	Housekeeping Waste	U-19y/s PS #1D	Dead Horse Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 87 Area 20 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
20-22-08	Drum, Bucket	Housekeeping Waste	U-20ae	Silent Butte
20-24-01	Battery	Housekeeping Waste	U-20u	Trail Ridge
20-24-05	Battery	Housekeeping Waste	U-20k Access Road	Trail Ridge

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 88 Area 22 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
22-22-02	Drums (4)	Housekeeping Waste	Desert Rock Airstrip	Camp Desert Rock

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 89 Area 25 Housekeeping Sites**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 12/21/1995**

<b>CAS Number</b>	<b>CAS Description</b>	<b>Functional Category</b>	<b>General Location</b>	<b>Map Name</b>
25-22-04	Drum	Housekeeping Waste	TTF Building #3124	Jackass Flats
25-22-07	Drums (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-22-11	Drums (7)	Housekeeping Waste	X-Tunnel	Striped Hills
25-24-13	Batteries	Housekeeping Waste	MX Scrap Yard	Amargosa Valley
25-26-06	Lead Bricks (12)	Housekeeping Waste	Test Cell C	Jackass Flats

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 9 Archived - Area 6 Yucca Lake Construction Landfill

**Owner:** NNSA / Industrial Sites - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 90 Area 2 Bitcutter Containment**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/21/1997**

Post-Closure Monitoring is required for this CAU.

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
02-20-01	Bitcutter/PS Inj. Wells (3) (RCRA)	Injection Well	Area 2 Bitcutter Shop	Oak Spring
02-20-03	Wastewater Pit	Sump (Cellar)	LLNL Postshot Shop	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 91 Area 3 U-3fi Injection Well**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 2/27/1997**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
03-20-03	Ud-6 and Ud-6s Disposal Holes	Injection Well	NW of U-3auS Landfill	Yucca Flat

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 92 Area 6 Decon Pond Facility**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 5/11/1999**

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring is required for this CAU.

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
06-04-01	Decon Pad Oil/Water Separator	Other	Building 6-605/6-607	Yucca Lake
06-05-02	Decontamination Pond (RCRA)	Leachfield	Building 6-605/6-607	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 93 Area 6 Steam Cleaning Effluent Ponds (SCEPs)**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 2/20/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
06-13-01	Generator Shop	Generator	Building 6-621	Yucca Lake
06-47-01	Steam Cleaning Effluent Ponds (RCRA)	Other Ponds/Lagoons	Buildings 6-623 & 6-800	Yucca Lake
06-99-05	Sumps	Sump (Cellar)	Building 6-800	Yucca Lake

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 94 Area 23 Building 650 Leachfield**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 11/3/1998**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
23-05-01	Leachfield (RCRA)	Leachfield	Building 650	Mercury

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

<b>CAU Number: 95 Area 15 EPA Farm Facility</b>				
<b>Owner: NNSA / Industrial Sites - ERP</b>			<b>CAU Notice of Completion: 3/2/1998</b>	
NDEP never issued a milestone Notice of Completion.				
<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
15-41-01	EPA Farm Laboratory Building	D&D Facility	EPA Farm, Building 15-06	Oak Spring

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number: 96 Area 25 Junior Hot Cell**

**Owner: NNSA / Industrial Sites - ERP**

**CAU Notice of Completion: 8/4/1997**

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
25-41-02	Jr. Hot Cell	D&D Facility	R-MAD Bldg. 3161	Skull Mountain

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 207 Archived - Area 5 WMD Greater Confinement Disposal (GCD) Boreholes

**Owner:** NNSA / Industrial Sites - WMP

**CAU Notice of Completion:** 4/7/1998

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
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N/A

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 108 Archived - Cabrioleet Contamination Area

**Owner:** NNSA / Soils - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 373 Archived - Area 20 Palanquin Unit Crater

**Owner:** NNSA / Soils - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 466 Archived - Hydronuclear

**Owner:** NNSA / Soils - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 467 Archived - Hydronuclear

**Owner:** NNSA / Soils - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

**FFACO**  
**Appendix IV - Corrective Action Sites/Units**

**CAU Number:** 100 Archived - Climax Mine

**Owner:** NNSA / UGTA - ERP

**CAU Notice of Completion:** 11/24/2003

<i>CAS Number</i>	<i>CAS Description</i>	<i>Functional Category</i>	<i>General Location</i>	<i>Map Name</i>
N/A				

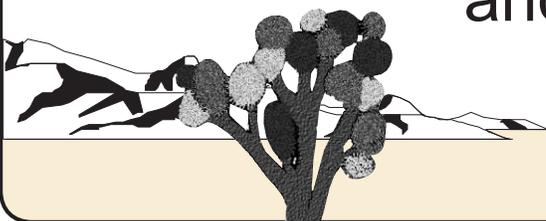
# **Appendix V**

## **Public Involvement Plan**

Revision No.: 5

January 2007

Federal Facility Agreement  
and Consent Order  
(FFACO)



## ***Preface***

---

The Environmental Management Public Involvement Plan (Plan) provides information on how the public can learn about, and become involved in, the U.S. Department of Energy (DOE), National Nuclear Security Administration Nevada Site Office (NNSA/NSO) Environmental Management (EM) Program. The Plan was developed to facilitate a strategy of broad public involvement in all EM activities, which include environmental restoration and waste management. Detailed in the Plan are the various communication mechanisms that were developed to assist the public in establishing a larger role in the EM Program and related activities.

The Plan serves two purposes: it provides a broad public involvement strategy for the EM Program; and fulfills requirements contained in the *Federal Facility Agreement and Consent Order* (FFACO) relating to public awareness and participation for EM activities. Under the FFACO, which was entered into by the NSO, the State of Nevada, and the U.S. Department of Defense (DoD), sites and facilities potentially contaminated by past DOE and DoD activities must be effectively investigated and corrective actions established to protect public health, safety, and the environment. The Plan, which is incorporated into the FFACO as Appendix V, is a key resource for gaining information on public participation options that relate to NSO environmental restoration and waste management activities.

The major goal of the EM public involvement program is to establish and maintain a two-way exchange of information and ideas between the public and EM regarding environmental management issues and priorities. The Plan is a "working document" and will be reviewed and revised periodically to reflect changing information and/or to incorporate new public involvement opportunities that arise as the EM Program evolves. Changes to the Plan will be communicated to the public and made available for review in the NSO Public Reading Facilities in Nevada. Reading facility locations and telephone numbers are included at the end of [Section 4.4](#).

[Section 1.0](#) of the Plan provides an overview of DOE's complex-wide EM Program and the EM Program activities that are specific to the NSO. [Section 2.0](#) presents the EM Public Involvement Strategy, which includes descriptions of the various levels of involvement that can be applied to EM work and the participation opportunities that exist at each level. [Section 3.0](#) gives an overview of the roles and responsibilities of the Environmental Restoration and Waste

Management Projects within the EM Program. The regulatory drivers and agreements that impact the EM Program are explored in [Section 4.0](#) and [Section 5.0](#).

[Section 5.0](#) presents a summary of various public comments and requests that have helped shape EM's public involvement activities and, in turn, influenced the objectives of the Plan.

[Attachment 1](#) includes a brief description of the Nevada Test Site and a historical summary of activities conducted at the Nevada Test Site. An Information Request Form can be found in [Attachment 2](#).

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## ***List of Acronyms and Abbreviations***

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The Nevada Site Office commonly uses acronyms in its publications and operations. Acronyms are words formed from the first letter of each major part of a compound term. For example, the National Nuclear Security Administration is typically shortened to NNSA. Acronyms are an effective means of communication, but only when readers are familiar with the representative terms. Below is a list of acronyms used in this document:

CAB	Community Advisory Board
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
EA	Environmental Assessment
EIS	Environmental Impact Statement
EM	Environmental Management
FFACO	<i>Federal Facility Agreement and Consent Order</i>
FFCAct	<i>Federal Facility Compliance Act of 1992</i>
NEPA	<i>National Environmental Policy Act of 1969</i>
NSO	Nevada Site Office
NTS	Nevada Test Site
RCRA	<i>Resource Conservation and Recovery Act of 1976</i>
TTR	Tonopah Test Range

## ***1.0 EM Overview***

---

In 1989, the U.S. Department of Energy (DOE) in Washington, D.C. created the Office of Environmental Restoration and Waste Management, now called the Office of Environmental Management (EM). The EM Program was instituted at DOE field offices around the country to address the environmental liabilities of 50 years of nuclear weapons production in the United States. The EM Program at the U.S. Department of Energy National Nuclear Security Administration Nevada Site Office (NSO), formerly known as the U.S. Department of Energy, Nevada Operations Office (DOE/NV), is part of that effort. It is the responsibility of EM to determine the risk and future cleanup costs associated with environmental contamination, including hazardous and radioactive materials and wastes, and contaminated buildings and facilities that are the result of past testing and research activities.

Most NSO EM projects are carried out at the Nevada Test Site (NTS) and the Tonopah Test Range (TTR) which is part of the Nevada Test and Training Range (formerly known as the Nellis Air Force Range). Located in Nye County, the NTS is a unique national resource (see [Figure 1](#)). The approximately 1,375-square mile site is located about 65 miles northwest of Las Vegas. It is larger than the state of Rhode Island, making it one of the largest restricted access areas in the United States. This remote, arid, and restricted site is predominantly surrounded by tightly controlled federal lands and facilities. The Nevada Test and Training Range provides a buffer zone on the east, north, and most of the west border of the NTS, and the U.S. Bureau of Land Management land provides a buffer zone on the south and southwest border (see [Attachment 1](#) for an overview of the NTS).

The NSO EM Program consists of the Environmental Restoration and Waste Management Projects. These projects have separate yet interrelated roles and responsibilities which are detailed in [Section 3.0](#) of this Plan. Under the NSO EM Program, the projects operate with the common goals of soliciting and incorporating public comments into the decision-making process, protecting human health and safety, emphasizing environmental responsibility for NSO activities, and complying with all applicable laws and regulations affecting program activities.

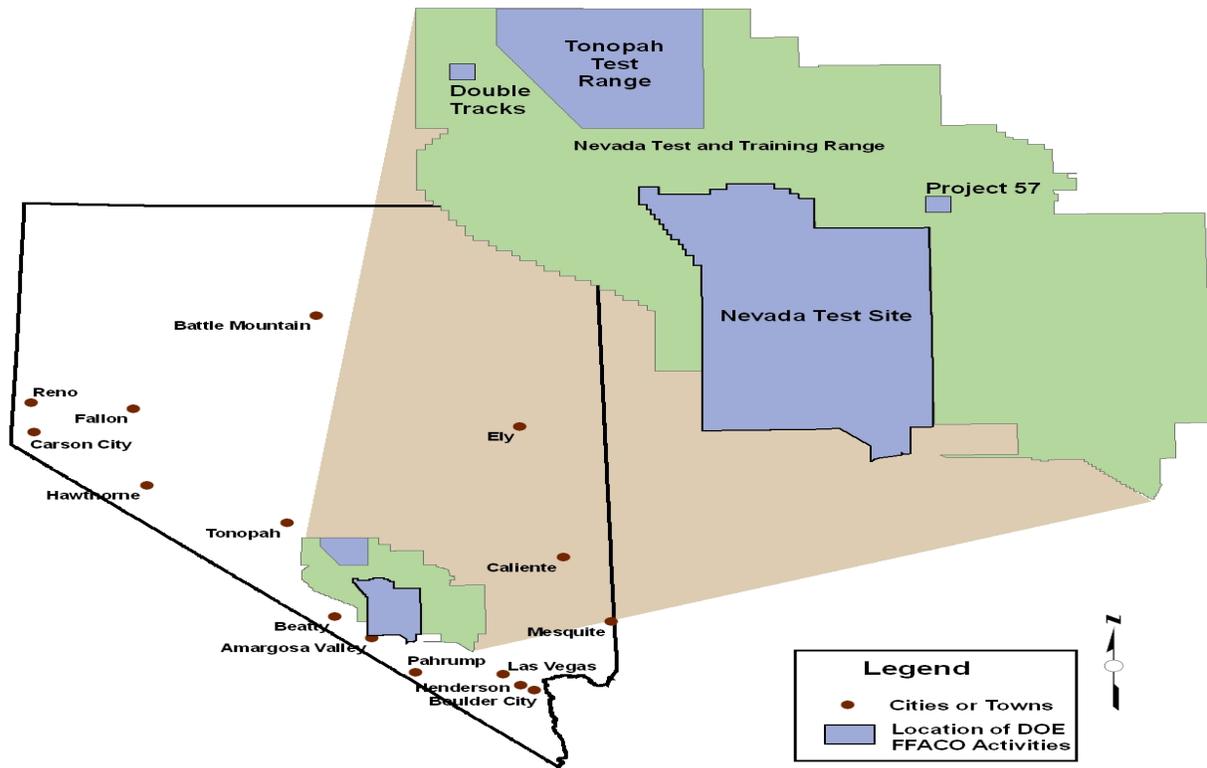


Figure 1 - Nevada Test Site and Surrounding Areas

The laws, regulations, and NSO/State of Nevada agreements with specific requirements for public interactions include the following:

- *National Environmental Policy Act (NEPA)*
- *Resource Conservation and Recovery Act (RCRA)*
- *Federal Facility Compliance Act (FFCAct)*
- *Federal Facility Agreement and Consent Order (FFACO)*

A more detailed description of environmental regulations is provided in [Section 4.0](#).

## ***2.0 Public Involvement Strategy***

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### ***2.1 Strategic Overview***

Public involvement has taken many forms since testing began at the NTS. From the publicity surrounding the atmospheric tests in the 1950s, to the protests that have occurred since, the public has expressed an ongoing interest in activities at the NTS. At a national level, the Openness Policy, enacted by the former Secretary of Energy, Hazel O’Leary, in December 1993, paved the way for the declassification and availability of information and materials. The policy inspired further changes at the local levels. In 1994, DOE/NV (now NSO) conducted formal community relations interviews to establish a dialogue with the public. The interviews helped identify participants’ key concerns, attitudes, knowledge, and understanding of the EM Program at DOE/NV. The formation of the Community Advisory Board (CAB) for Nevada Test Site Programs and subsequent regular CAB meetings provided additional opportunities for public input. The public input was often candid and helpful, setting in motion a number of programs that would appeal to diverse audiences with different informational needs and interests.

### ***2.2 Participation Levels***

People have demonstrated varying levels of interest in NSO activities. Some individuals have specific interests and attend meetings or request materials only when the related topics address those interests. Others are satisfied to receive information through television coverage and newspaper articles. Still, there are others who take on a more active approach by joining an outreach effort and/or volunteering to serve on the CAB or on one of the Board’s committees.

This public interest and involvement has been categorized at four basic levels (see [Figure 2](#)). These levels are divided as aware, informed, involved, and highly involved, and are defined as follows:

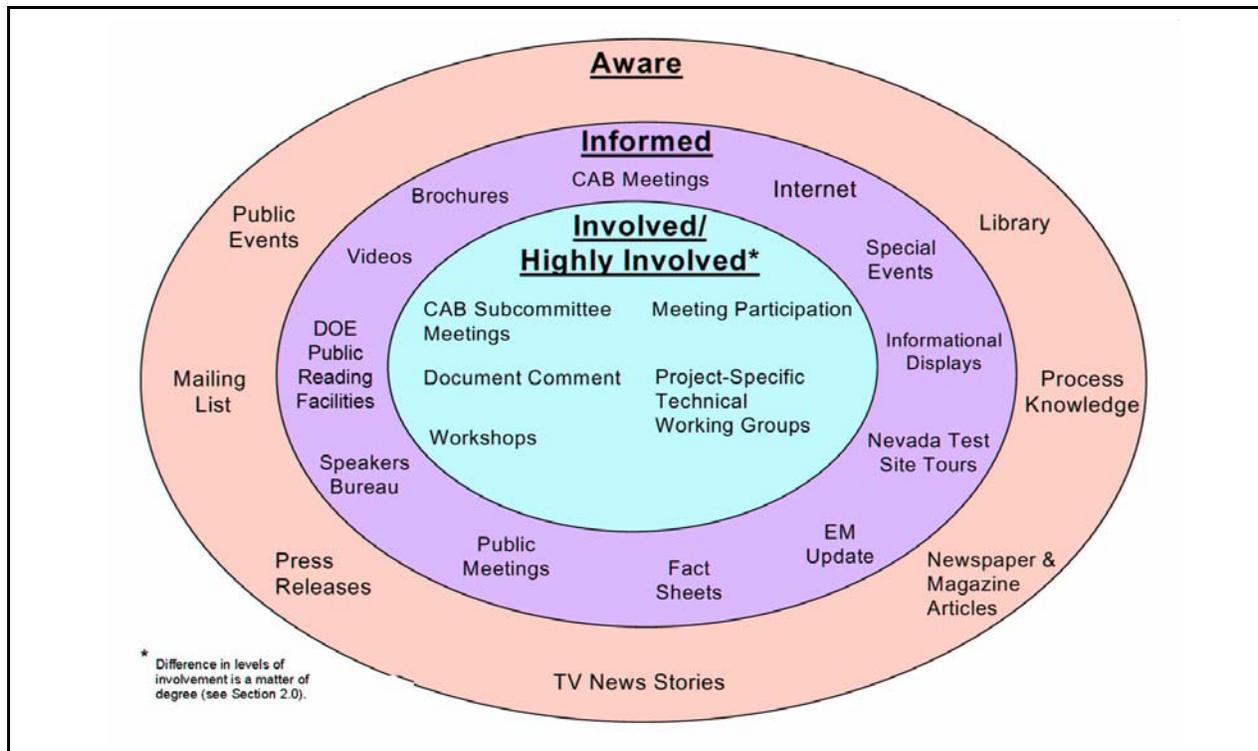


Figure 2 - Levels of Public Involvement

- Aware** - Broadcast and print media are usually the first place people turn to get current, issue-oriented information. This helps increase awareness of events and activities taking place at the NTS. To facilitate this flow of information, personnel prepare news releases, schedule news conferences, conduct media interviews, and place advertisements in local newspapers. The CAB public outreach effort makes additional information available to the general public concerning topics that are covered at CAB meetings relating to various NSO EM Programs.
- Informed** - Those individuals who actively seek out information on a particular topic, subject, or program fall into the category of wanting to become informed. Information can be attained by attending a public meeting; requesting to be added to the mailing list to receive notices of upcoming meetings or events, or to receive specific informational materials such as the EM Update publication; reading topical fact sheets, publications, and brochures; browsing NSO EM Internet sites; requesting displays for special events; touring the NTS; and requesting guest speakers for meetings, conferences, and luncheons.
- Involved** - When attending meetings or reviewing written materials, a person is inspired to dig deeper or find answers to questions; he/she has entered the involvement phase of public participation. The search for more specific answers might result in people voicing their opinions at public meetings, participating in workshops, or serving on committees such as those offered by the CAB. Involvement requires a personal commitment and the willingness to devote free time to participate in meetings and read background materials.

- **Highly Involved** - When a stakeholder or organization invests the time and effort to attend public meetings and research projects in order to contribute to the decision-making process, this person or group is highly involved. This level of involvement typically requires researching, reviewing, and formally commenting on public documents; requesting more information or a briefing from key managers; and participating in public meetings to stay current with a project and its potential impact to the environment or public health and safety. People who are highly involved become conversant with the topic, time line, and the "language" of the program and are likely to interact frequently with NSO decision makers.

### **2.3 Opportunities to Become Aware and Informed**

Those who are seeking general information regarding NSO EM can utilize a variety of resources. Some public awareness opportunities are available on an ongoing basis, while others are developed in response to a specific project or public demand. The activities are outlined below:

- Request to be added to the **NSO Environmental Management Mailing List**. NSO EM maintains a comprehensive mailing list to disseminate meeting notices and information on EM projects and activities. Names may be added to or deleted from the list by contacting the NSO EM Public Involvement Task Manager at (702) 295-2836. Individuals can also be placed on the CAB's mailing list for information on upcoming CAB meetings and/or events. Names may be added or deleted to the CAB's mailing list by contacting the CAB office at (702) 657-9088.
- Browse local and national EM **Internet sites** provided by the DOE. Visit the local NSO site at <http://www.nv.doe.gov/emprograms/environment/default.htm> or the national EM site at <http://www.em.doe.gov/>. Additional information may be found on the Nevada Division of Environmental Protection (NDEP) site at <http://ndep.nv.gov/>.
- Read **fact sheets** and **other materials** that provide information about specific projects and overviews of general NSO EM activities. Copies of these products are available on the Internet at <http://www.nv.doe.gov/library/default.htm>, at the Nuclear Testing Archive public reading facility, at select Nevada public libraries, or by contacting the NSO EM Public Involvement Task Manager at (702) 295-2836.
- Read the publication, **EM Update**, which describes NSO EM activities, programs, personnel changes, CAB recommendations, and other related information. The **EM Update** is available on the NSO Internet site at <http://www.nv.doe.gov/emprograms/environment/public/emupdate.aspx>. A notice of new publications is distributed to those on the NSO EM mailing list.
- Read and listen to **news releases** and **public service announcements** that describe achievements, events, workshops, meetings, personnel changes, and other items of interest.

- Request a speaker from the **NSO EM Speakers Bureau**. Community, academic, civic, and professional groups are encouraged to request a speaker from the NSO EM staff and/or contractors to learn more about any one of many environmental topics. To request a speaker, contact NSO EM's Public Involvement Task Manager at (702) 295-2836.
- Attend **public outreach** events that feature NSO EM exhibits and displays. EM displays can also be requested for use at schools, libraries, conferences, and other special events.
- Take part in an **NTS tour**. Monthly public tours of the NTS are conducted and provide a historical background and information about activities at the NTS. Additional information about the tour, registration and schedules can be found by visiting the NSO Internet site at <http://www.nv.doe.gov/nts/tours.htm> or by calling (702) 295-0944.
- **Low-Level and Mixed Low-Level Waste Transportation Routing Reports** are distributed on a quarterly basis and contain a variety of information including the number of shipments and routes taken to the Nevada Test Site. To receive this report, contact the NSO Transportation Coordinator at (702) 295-4800.

## **2.4 Opportunities to Become Involved**

The following opportunities are available for people or organizations seeking to become involved in specific projects or activities:

- Visit and use the **Public Reading Facilities**. The facilities contain complete information on EM Program projects and activities. The reading room locations are provided in [Section 4.4](#).
- Attend **CAB meetings** that highlight specific projects and subjects. Such meetings may also provide interested citizens with updates of ongoing issues, such as budget activities. Visit <http://www.ntscab.com> for meeting times, dates, and locations.
- Provide **public comment and review** of documents such as *National Environmental Policy Act* assessments and plans required by the *Federal Facility Agreement and Consent Order (FFACO)*. A list of FFACO Public Notices and information on how to review documents and submit comments is available on the NSO Internet site at <http://www.nv.doe.gov/emprograms/environment/restoration/ffaco.htm>.
- Request one-on-one or small **informal meetings and briefings** by EM to receive timely and ongoing information about such topics as the budget process, cleanup activities, or waste shipments to the NTS.

- Become involved in **educational outreach programs** in which NSO participates, such as Operation Clean Desert.

## **2.5 Opportunities to Become Highly Involved**

NSO EM provides various opportunities for the public to become involved in the EM decision-making process, often seeking input from the public, where appropriate and feasible to incorporate feedback. Such opportunities arise through participation in workshops, NSO EM stakeholder groups (such as the CAB) and the development of topic-specific stakeholder plans. Whenever possible, NSO EM provides feedback to the public as to the manner in which its input has been used.

- **Community Advisory Board** - In 1994, the CAB for Nevada Test Site Programs was officially approved by the U.S. Secretary of Energy. The CAB operates under a national federal charter approved by the Office of Management and Budget and the General Services Administration. As such, it falls under provisions of the *Federal Advisory Committee Act*. The CAB, which is composed of 15 to 20 individuals, was established to enhance public involvement and input-related to NSO EM activities. Membership is open to all Nevada residents. All meetings are open to the public and the public is strongly encouraged to attend. Liaisons to the CAB include representatives from EM, the Defense Threat Reduction Agency, the State of Nevada, Nye County, and the U.S. National Park Service. Requests to be added to the CAB's mailing list should be sent to [ntscab@nv.doe.gov](mailto:ntscab@nv.doe.gov) or by calling (702) 657-9088.

The CAB provides a convenient and accessible way for individuals or organizations to explore public participation opportunities at all involvement levels. Those wishing to become aware or informed may attend without actively participating in discussions or question and answer sessions. However, those with a keen interest in specific activities or projects may take a more active role in meeting participation or volunteer to be on one of the CAB committees, which focus on such topics transportation, waste disposal, groundwater, and budget prioritization. To submit an application for membership on the CAB, please contact the CAB office at (702) 657-9088.

- **Public Workshops** provide a forum for information gathering and dialogue with key decisionmakers and other groups and organizations. Workshops that address specific issues, such as each fiscal year's scope of work, planning, budget, and project prioritization, provide mechanisms for the public to offer input regarding general programmatic decisions. Notification of such opportunities is sent to individuals who are included on the NSO EM and CAB mailing list.
- **Stakeholder Involvement Plans** are produced for specific sub-projects which have a potential to impact the public. These plans contain a description of the sub-project, key dates for project development, and specific opportunities for stakeholders to become highly involved in the issue. The "End State Vision" document is an

example of recent programmatic efforts that warranted project-specific stakeholder involvement plans.

## **3.0 EM Project Overviews**

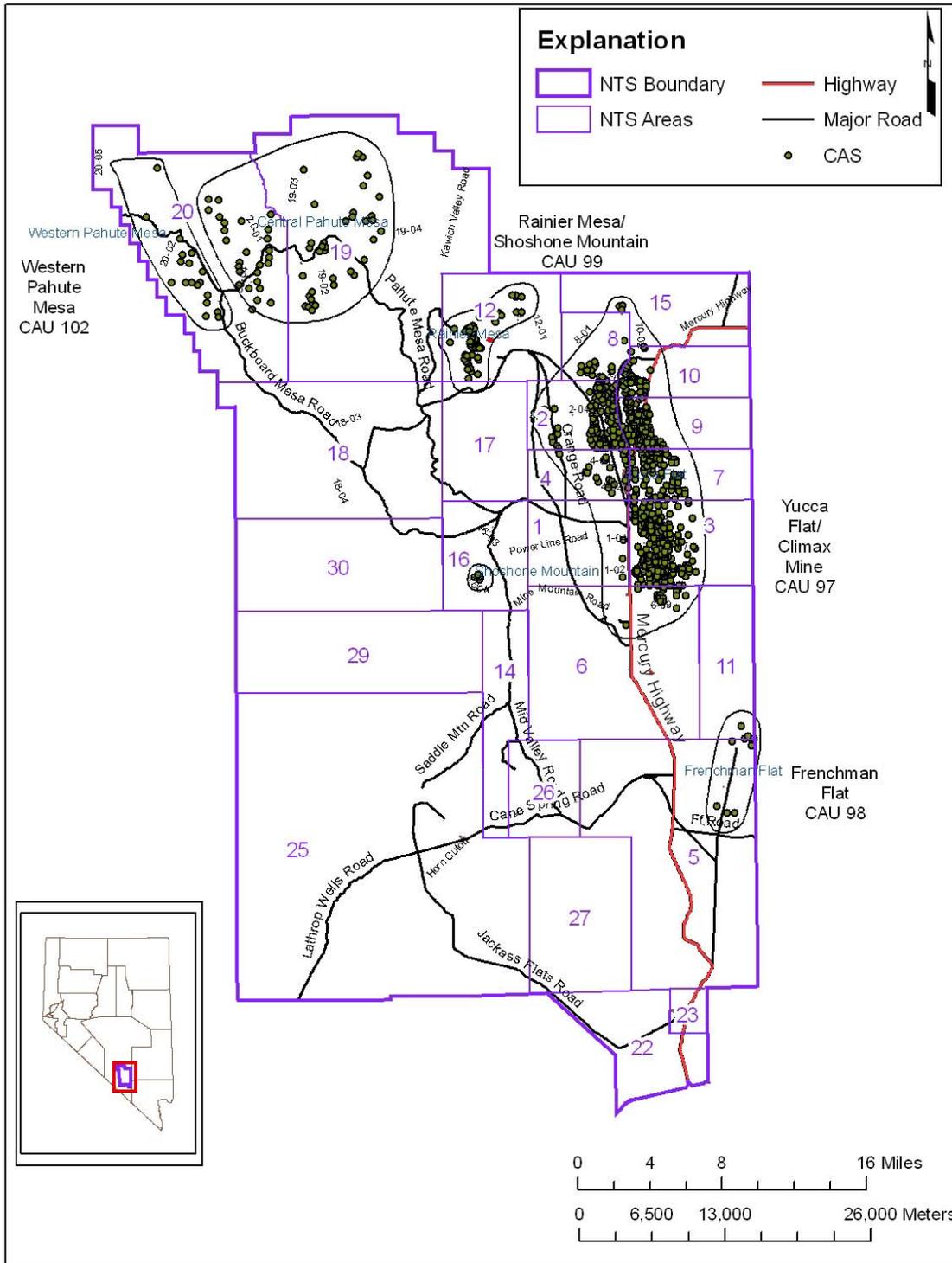
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### **3.1 Environmental Restoration Project**

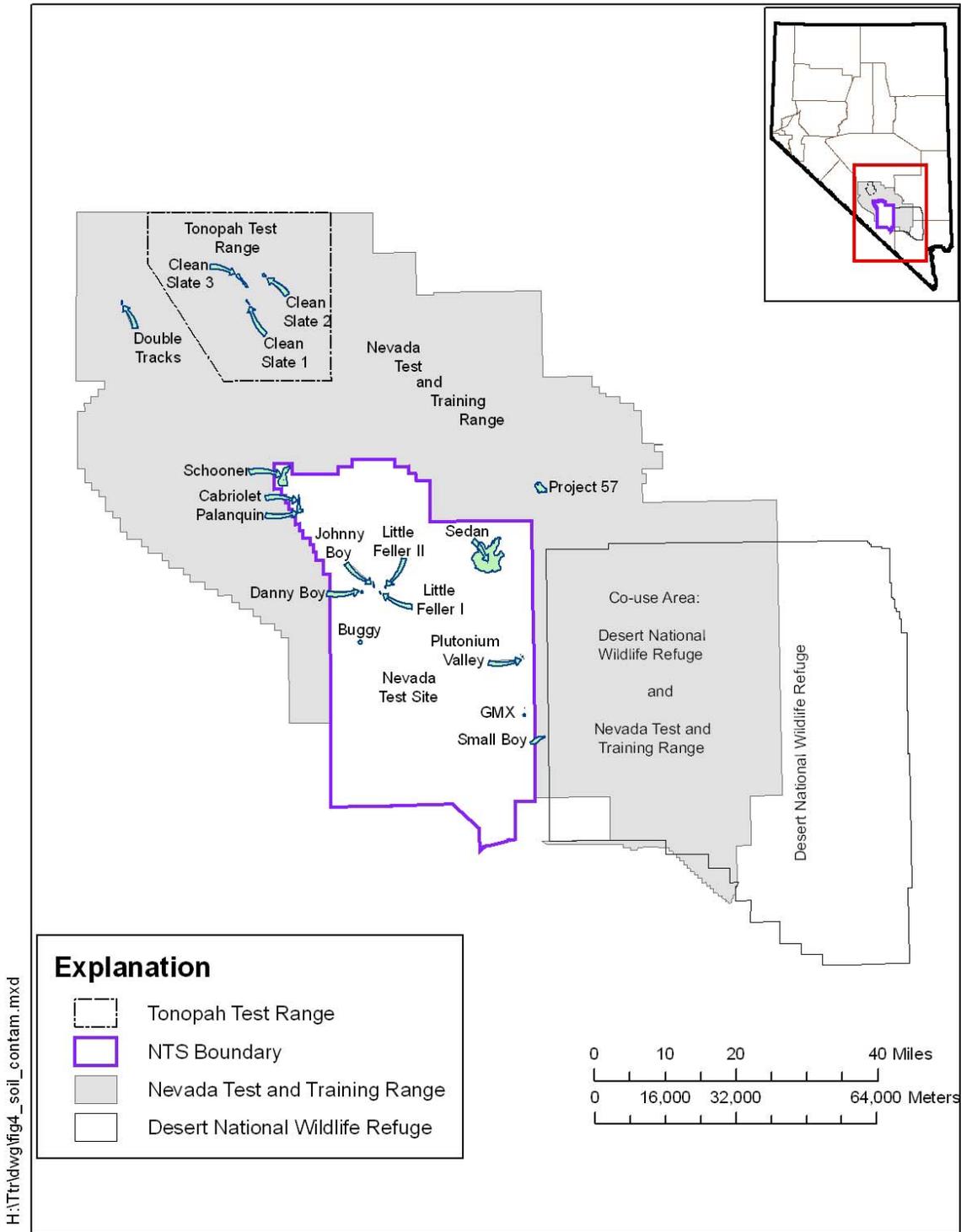
The NSO EM Environmental Restoration Project addresses contamination from historical nuclear weapons programs at NSO facilities and sites. This contamination resulted from nuclear testing and related support operations, nuclear rocket experiments, and non-nuclear experiments. Contaminants include radioactive materials, unexploded ordnance, gasoline, oils, solvents, and heavy metals such as lead.

Environmental Restoration Project objectives are to identify the nature and extent of the contamination and assess the potential risk the contamination poses to the public and the environment. About 2,500 potential environmental restoration sites have been identified to date and range from locations where car batteries have been discarded to craters formed by underground nuclear tests. Major environmental restoration activities include:

- **Groundwater studies** – The goal of this sub-project is to generate models for groundwater flow and radionuclide transport, in order to characterize the effects of historic underground nuclear detonations at the NTS. The models will be used to determine contaminant boundaries and a future groundwater monitoring network. (see [Figure 3](#)).
- **Soils remediation studies** – This sub-project characterizes contaminated surface and shallow subsurface soils on the Nevada Test Site and the Nevada Test and Training Range, including the Tonopah Test Range. Depending on the results of the characterization, an appropriate remediation activity is then conducted. (see [Figure 4](#)).
- **Industrial Sites** --This sub-project characterizes and remediates historic nuclear testing support sites including disposal wells, inactive tanks, contaminated waste sites, inactive ponds, muck piles, spill sites, drains and sumps, and ordnance sites. (see [Figure 5](#) and [Figure 6](#)). Industrial Sites activities also include the deactivation and decommissioning of NTS facilities that are no longer used, will not be used in the future, and are known or suspected to be contaminated. After contamination levels have been identified and contaminants stabilized, contained, or removed, the facilities are sealed, dismantled, or converted for non-nuclear uses. Industrial Sites are located on the NTS and TTR.



**Figure 3 - Underground Test Area (UGTA) Corrective Action Sites (CAS) and Corrective Action Unit Boundaries**



**Figure 4 - Areas of Surface Soil Contamination**

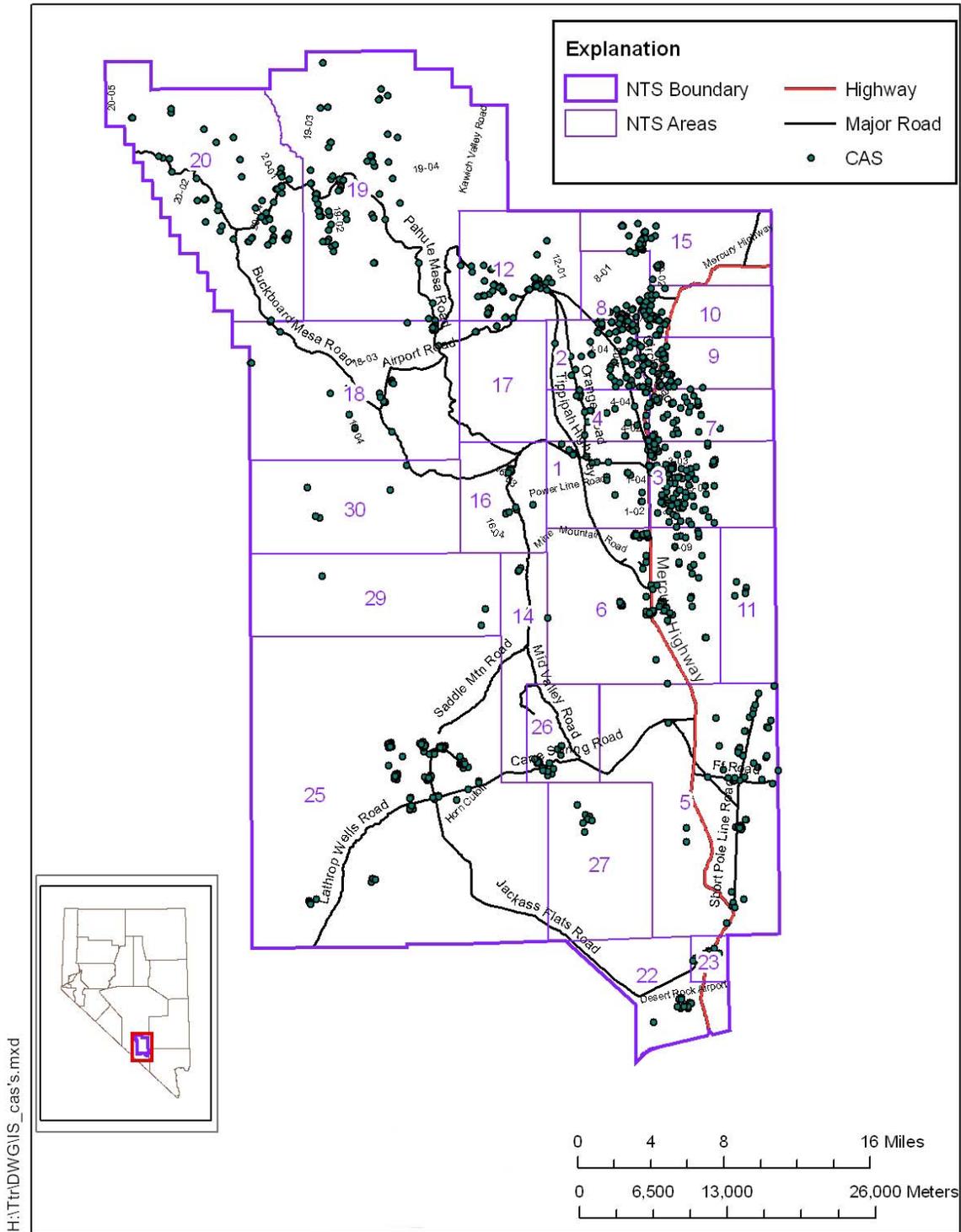
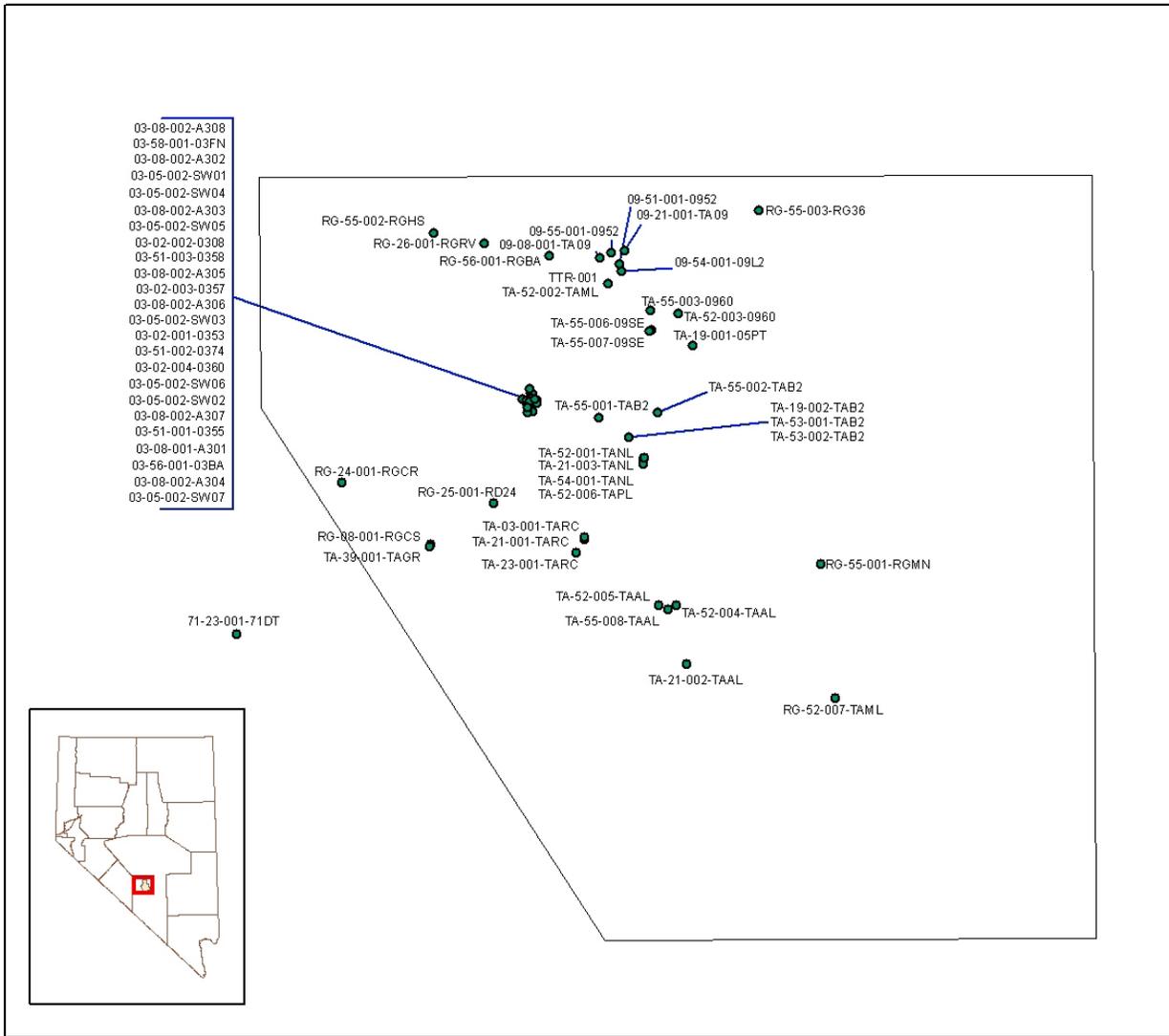
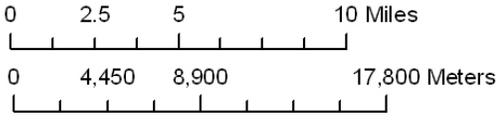


Figure 5 - Industrial Sites Corrective Action Sites at the NTS



**Explanation**

- CAS Location
- Tonopah Test Range



**Figure 6 - Industrial Sites Corrective Action Sites at the TTR**

### **3.2 Waste Management Project**

The Waste Management Project is responsible for the management and disposal of low-level and mixed low-level radioactive waste from the NTS and other approved DOE and DoD facilities. The Waste Management Project also temporarily stores hazardous and transuranic waste prior to treatment and/or disposal. The objective is to protect the environment and the public's health while minimizing, treating, storing, and disposing of waste generated at DOE sites.

The above mentioned waste types are currently managed at the Area 5 Radioactive Waste Management Site located on the NTS. Engineered and excavated cells are currently used for the disposal of low-level and mixed low-level radioactive waste. Under an agreement with the State of Nevada, transuranic waste is also stored at the Area 5 Radioactive Waste Management Site until it is shipped off-site. The ultimate disposal destination for the transuranic waste is the Waste Isolation Pilot Plant near Carlsbad, New Mexico. Hazardous waste is accumulated at the NTS and shipped off-site to a permitted treatment, storage, and disposal facility.

Related waste management activities include the following:

- **Radioactive Waste Acceptance Program** -- This program ensures that approved generators sending low-level and mixed low-level radioactive waste for disposal at the NTS are capable of characterizing, managing, and transporting radioactive waste in a compliant manner.
- **Performance Assessment** -- An assessment and characterization program determines the suitability of NTS sites for waste management activities. NTS waste management sites are closely monitored to make sure that wastes are properly contained within the disposal cells and that contamination is not released or spread beyond disposal site boundaries.
- **Emergency Response Training** -- Highway accident response training for radiological emergencies is conducted through specially designed courses for federal, state, and local emergency personnel.
- **Transportation** - The Waste Management Project is responsible for the safe, efficient, and cost-effective packaging and transportation of NSO EM materials, such as radioactive and hazardous materials and wastes. Other responsibilities associated with transportation include preparing and analyzing transportation data in support of local transportation and stakeholder outreach efforts. The NSO is not responsible for the transportation of waste to the NTS from off-site generators. In turn, NSO EM encourages approved low-level and mixed low-level radioactive waste generators and their contractors to use transportation alternatives that would further minimize

radioactive risk, enhance safety, and address public concerns. Other national decisions outside the scope of NSO are not covered by this Plan.

Specific waste types include the following:

- **Low-level radioactive waste**, which is the most common type of radioactive waste disposed at the NTS, typically consists of soil, rags, papers, equipment, solidified sludge, concrete, building materials, and discarded protective clothing contaminated with low levels of radioactivity. Low-level radioactive waste is currently disposed at the Area 5 Radioactive Waste Management Site located within the boundaries of the NTS (see [Figure 7](#)). From the early 1970s through fiscal year 2005, more than 33 million cubic feet of low-level radioactive waste have been disposed at the NTS.
- **Hazardous waste** consists of toxic, reactive, or ignitable substances. Hazardous waste is not radioactive and includes materials such as waste chemicals, fuels, and paints. Hazardous waste stored at the NTS is sent off-site to licensed, commercial facilities for recycling, incineration, or disposal. If the waste contains explosive materials, it is treated on-site at the Explosive Ordnance Disposal Unit.
- **Mixed low-level radioactive waste** contains both radioactive and hazardous components. NSO EM currently operates a Mixed Waste Disposal Unit at the Area 5 Radioactive Waste Management Site which is regulated by the State of Nevada Division of Environmental Protection under interim status. Conditions set forth in the December 2005 NTS Resource Conservation and Recovery Act Part B Permit require that this Unit be limited to the disposal of 20,000 cubic meters and close within five years, whichever comes first.
- **Transuranic waste** contains radioactive isotopes heavier than uranium, thus the term “trans” (or “beyond”) uranium. This type of waste is produced during reactor fuel assembly, nuclear weapons production, and fuel reprocessing operations. Transuranic (TRU) waste radioactivity decays very slowly and requires long-term isolation. The NTS temporarily stores legacy transuranic waste in the TRU Pad cover building. DOE disposes transuranic waste at the Waste Isolation Pilot Plant near Carlsbad, New Mexico. Through calendar year 2005, the NTS shipped 1,860 drums of transuranic waste, in 48 shipments, to the Waste Isolation Pilot Plant for permanent disposal.
- **Sanitary waste** contains no hazardous or radioactive components. The NTS handles its own solid and liquid wastes using landfills and water treatment facilities similar to those found in metropolitan areas.

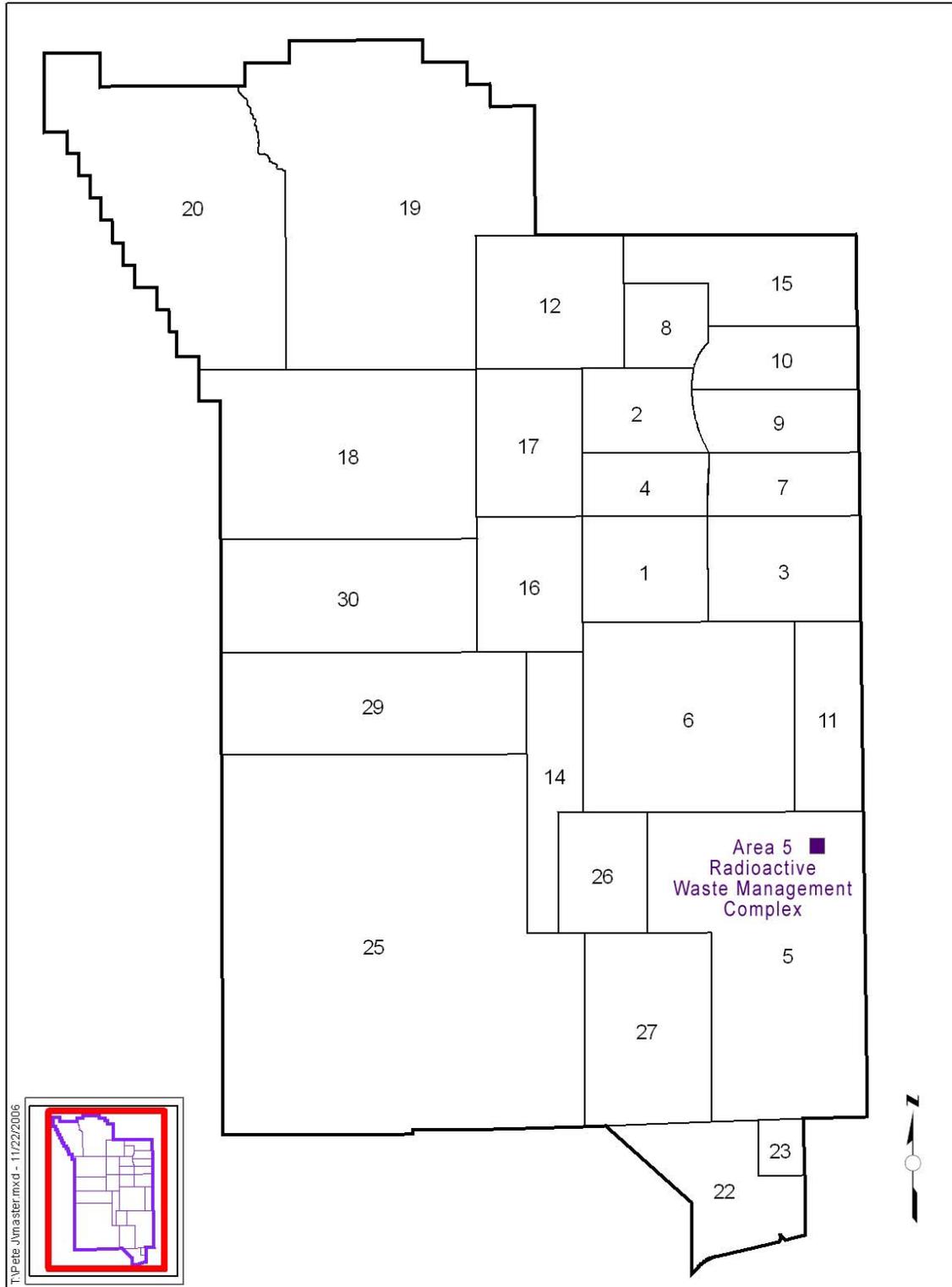


Figure 7 - Area 5 at the NTS

## ***4.0 Regulatory Drivers and Agreements***

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An essential part of the public involvement strategy is to inform the public about laws, regulations, and agreements affecting environmental management. Whether entered into voluntarily or required by law, these agreements provide the basis for much of the work conducted by the NSO.

### ***4.1 Federal Facility Agreement and Consent Order***

The FFACO of May 1996 is the dominant regulatory driver for NSO EM environmental restoration activities in Nevada. It sets the framework for prioritizing specific restoration projects based on risk, agency regulations, and public input. A list of corrective action sites with activities currently in progress can be found in Appendix III of the FFACO. The FFACO also establishes a technical strategy for cleanup activities, maximizes the opportunity to complete multiple corrective actions, and provides for public involvement activities.

Under the FFACO, the NSO and DoD propose priorities and discuss them with State of Nevada representatives who make recommendations. These recommendations are presented to the public and the CAB for review. Following public input, the State, NSO, and the DoD will develop a final prioritization of corrective action units for investigation and remedial action.

Throughout the corrective action process, documents are written to detail activities needed to ensure the completion of the corrective action, as illustrated in [Figure 8](#). [Figure 8](#) also describes the public involvement and/or information opportunities that arise during the FFACO corrective action process. The public, as shown in the figure, can learn about the availability of these FFACO documents by attending CAB meetings, by visiting the NSO EM Internet website at <http://www.nv.doe.gov/emprograms/environment/restoration/ffaco.htm>, or by contacting the NSO EM.

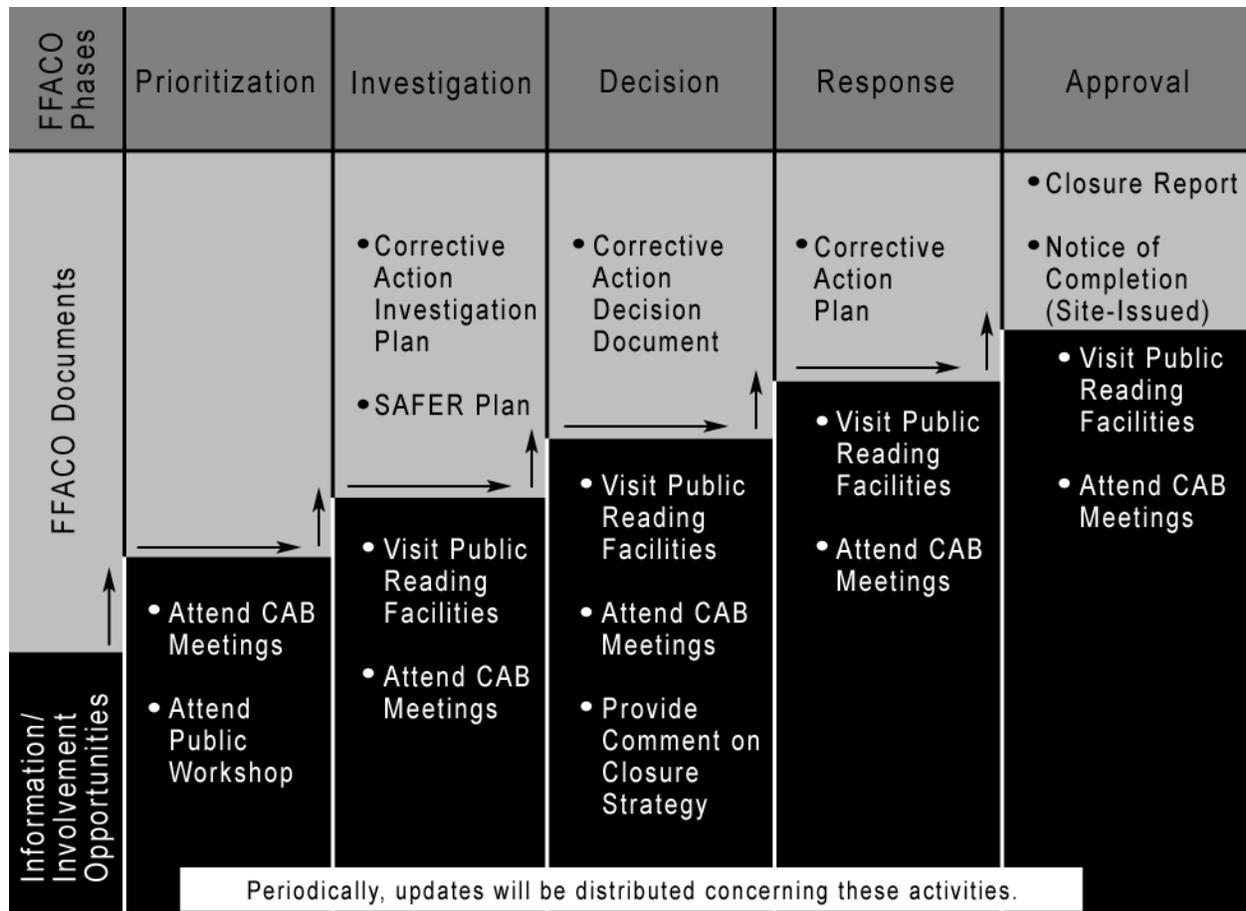


Figure 8 - FFACO Corrective Action Process

A brief description of each document in the above table is listed below:

- **Corrective Action Investigation Plan** - provides or references all specific information for planning investigation activities associated with corrective action units or sites. This document must include or reference the management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information needed to conduct the investigation.
- **Streamlined Approach for Environmental Restoration Plan** - provides a process for initiating and completing corrective actions at units where enough information exists to select the appropriate remedy before completing an investigation. The plan will incorporate the essential elements of the investigation plan, the decision document, and the action plan.

- **Corrective Action Decision Document** - provides a summary of the corrective action investigation and describes the selected remedy and the rationale for its selection, documenting remedial alternatives, ranging from no action to clean closure.
- **Corrective Action Plan** - prepared when the Corrective Action Decision Document requires a corrective action. The Corrective Action Plan outlines the method for implementing the selected corrective action alternative and explains how the action will be completed.
- **Closure Report** - verifies that the completed corrective action was conducted in accordance with the approved action plan and provides (to the State) all necessary support data to confirm the appropriate action took place.
- **Notice of Completion** - a State-issued document (usually in the form of a letter) signifying the completion of the corrective action in accordance with approved plans.

In addition to the documents listed above, the following documents may be used when conditions listed for each have been met. The use of these documents in place of the usual document flow listed in Figure 8 are done with the concurrence of the State of Nevada.

- **Corrective Action Unit Work Plan** - an optional planning document that provides information for a corrective action unit or collection of units where significant commonality exists. This plan may be developed to eliminate redundant Corrective Action Unit documentation and may contain management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information. Common information will be referenced in appropriate Corrective Action Investigation Plans.
- **Corrective Action Decision Document/Corrective Action Plan (CADD/CAP)** - a document that combines both the results of the Corrective Action Investigation (normally presented in the CADD), and the remediation plan (normally presented in the CAP). The document is developed as a time-saving method when the compliance boundary is well defined, and the remediation alternatives are limited.

- ***Corrective Action Decision Document/Closure Report*** - a document developed when results from the corrective action investigation indicate that contaminant concentrations are below the level of regulatory concern. The document provides the rationale for no further corrective action and may recommend closure with or without use restrictions or long-term monitoring.

Various documents associated with the corrective action process are made available in the public reading facilities.

#### **4.2 *Federal Facility Compliance Act-Consent Order***

The *Federal Facility Compliance Act-Consent Order* (FFCAct-CO), an amendment to the *Resource Conservation and Recovery Act* (RCRA), requires preparation of a Site Treatment Plan for the treatment of legacy mixed-radioactive waste. Legacy mixed-radioactive waste streams are subject to the Land Disposal Restrictions standards contained in the RCRA. The State of Nevada signed the *Federal Facility Compliance Act-Consent Order* and approved the *NTS Site Treatment Plan* in March 1996. This Consent Order contains schedules derived from the Site Treatment Plan and identifies specific treatment facilities for treating the identified mixed-waste streams on the NTS. If the NTS complies with the Site Treatment Plan and Consent Order, then it is exempt from fines and penalties for mixed-waste storage prohibitions under the RCRA.

#### **4.3 *Agreement in Principle/Joint Low-Level Waste Oversight Agreement***

The NSO and the State of Nevada entered into an *Agreement in Principle* which is intended to assure the citizens of the State of Nevada that NSO protects the public health and safety as well as the environment through existing programs and commitments. State of Nevada officials validate this effort through a program of independent monitoring and oversight of NSO daily operational activities. An appendix to the Agreement in Principle is the *DOE/NV-State of Nevada Joint Low-Level Waste Oversight Agreement*, establishing a cooperative oversight arrangement between the NSO and the State of Nevada allowing the State an increased role in monitoring the management of low-level and mixed low-level radioactive wastes generated and disposed at the NTS. By entering into the agreement, the NSO and the State agree to share information concerning waste types and quantities in addition to any general information that allows the State to conduct detailed oversight of waste disposal operations.

#### **4.4 Other Regulatory Drivers**

Throughout EM processes, the NSO is bound by various federal and state laws. Three of these laws (the *Resource Conservation and Recovery Act*, the *Comprehensive Environmental Response, Compensation, and Liability Act*, and the *National Environmental Policy Act* [NEPA]) are highlighted below.

The ***Resource Conservation and Recovery Act*** (RCRA) of 1976 is a comprehensive program for regulating and managing hazardous wastes, nonhazardous solid wastes, underground storage tanks, and for promoting the use of recycled and recovered materials. RCRA sets a federal policy of limiting land disposal of wastes in favor of other disposal methods, and encourages solid waste management practices that promote environmentally sound disposal methods, maximizes the reuse of recoverable resources, and fosters resource conservation. Federal agencies are required to comply with all applicable federal, state, and local RCRA regulations. The NTS RCRA Part B Permit was renewed by the State of Nevada Division of Environmental Protection in December 2005. This permit regulates the Hazardous Waste Storage Unit, Explosive Ordnance Disposal Unit, and Mixed Wasted Disposal unit, all of which are located within the boundaries of the NTS. In 2005, the Mixed Waste Disposal unit section of the permit was changed to allow acceptance of off-site Mixed Low-Level Waste.

The ***National Environmental Policy Act*** (NEPA) was passed in 1969 and requires federal agencies to fully consider and document all environmental consequences before beginning new programs or constructing new facilities. This applies to any activity which affects the government and is funded or approved by a federal agency. The depth of analysis and level of documentation under NEPA are dependent upon the potential for significant environmental impacts resulting from a proposed action and may range up to an environmental impact statement (EIS). An EIS presents a very detailed consideration of a proposed action or program and its potential impacts. For an EIS, NEPA requires a significant amount of public involvement, including public input during the scoping process and public hearings associated with the Draft EIS.

Preparation of the *Environmental Impact Statement for the Nevada Test Site and Other Off-Site Locations in the State of Nevada* (NTS EIS), which examines alternatives for current and future missions at the NSO sites in Nevada, was initiated in August 1994. Approval of the final NTS EIS occurred in the fall of 1996. The Record of Decision for the NTS EIS was issued on December 9, 1996, and describes in detail the decisions reached for operation of the NSO sites

and facilities in Nevada. A supplement analysis of the NTS EIS was completed in July 2002 and found that current EM activities were consistent with the 1996 NTS EIS descriptions and analyses. The NSO is currently evaluating the existing NTS EIS and other NEPA documentation to determine future required actions. A determination and any subsequent analysis will be made in fiscal year 2007.

Generally, for proposed actions for which the severity of environmental impacts are unknown but thought to be insignificant, the agency may prepare a less rigorous level of documentation than the EIS, the environmental assessment (EA). The EA is a concise public document used to determine if a proposed action would, in fact, have significant impacts. If the analyses in the EA demonstrate that potential impacts would be insignificant, the agency may prepare a "Finding of No Significant Impact" and proceed to implement the project. If the EA identifies potentially significant environmental impacts, the agency must then prepare an EIS before implementing an action. Public review requirements for an EA are generally less stringent than for an EIS, and no public hearings are necessary. Final EAs and "Findings of No Significant Impact" are made available to the public and are placed in public reading facilities.

Proposed actions that fit within certain predefined classes of action and meet other rigorous requirements may be considered categorically excluded from further consideration under NEPA. If a project is categorically excluded, no further analyses or documentation would be required for purposes of NEPA.

Under NEPA, information must be made available to state and federal agencies, potentially affected American Indian tribes, and the public before decisions are made. The NEPA process depends on public involvement which impacts decision making more directly as people take a more hands-on interest in environmental issues.

For more detailed information regarding laws and regulations, contact the librarian at the **Nuclear Testing Archive Public Reading Facility** at (702) 295-1628. Reading rooms are currently located at Southern Nevada Public Reading Facility, c/o Nuclear Testing Archives, 755 East Flamingo Road, Las Vegas, Nevada, 89119 (telephone [702] 295-1628), and at the Northern Nevada Public Reading Facility, Nevada State Library and Archives, 100 N. Stewart Street, Carson City, Nevada, 89701-4285 (telephone [775] 684-3326). Web site information may also be obtained through the reading facilities.

## ***5.0 Conclusion***

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This Plan details the various mechanisms that interested individuals, organizations, and stakeholders can use to gain knowledge about EM activities conducted by the NSO. Furthermore, the Plan offers communication techniques that will appeal to people with varying levels of interest. The overall goal of the Plan is to reflect the NSO EM's commitment to involve the public as projects are developed and decisions are made.

The Plan represents a culmination of comments and suggestions offered by the public and attempts to satisfy those that are most relevant. For the most part, the public is asking for clear, understandable summaries of technical data as well as general background information. Responding to this request, the Plan not only offers clear, concise descriptions of projects, but also details public involvement opportunities and communication channels that can enhance the learning process for the layperson. As NSO EM strives to accommodate the perspectives of both technical and non-technical audiences, further efforts are being made to include easy-to-read summaries in all documents. In keeping with public requests, the Plan also makes available crucial background data, such as historical and regulatory information, to help the audience relate to the "big picture" or overall program, project, or sub-project objectives.

Public participation, which often provides NSO EM with the insight needed to develop programs and prioritize work, is important at every level of the decision-making process. The Plan describes a number of opportunities for the public to become part of that process. NSO EM updates the plan as programs change and as the public identifies ways to make our programs and activities more effective. Please take the time to share your comments with us so that the Plan can continue to reflect your needs.

## ***6.0 References***

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U.S. Department of Energy, Nevada Operations Office. 1996. *Final Environmental Impact Statement for the Nevada Test Site and Off-Site Locations in the State of Nevada*, DOE/EIS 0243, August. Las Vegas, NV.

For more information on any of these topics, please contact:

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(702) 295-2836  
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Defense Threat Reduction Agency  
Nevada Operations  
P.O. Box 208  
Mercury, NV 89023  
(702) 295-7645

## ***Attachment 1: Overview of the Nevada Test Site***

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### ***History of the Nevada Test Site***

For more than 50 years, the primary mission of the Nevada Test Site was to conduct field testing using both nuclear and conventional explosives. NTS was established in 1950 when President Harry Truman authorized the designation of a continental atomic testing area. In addition to weapons tests, areas at the NTS have been utilized for various secondary missions, including neutron and gamma-ray interaction studies; open-air nuclear reactor, nuclear rocket engine, and nuclear furnace tests; hazardous materials spill response testing; and experiments conducted by the Department of Defense involving radioactive and non-radioactive materials. In the 1950s, atmospheric tests were carried out at the NTS until the Limited Test Ban Treaty went into effect in 1963, ending testing activities in the atmosphere, the oceans, and space. After July 1962, all nuclear tests in the United States were conducted underground, most of them at the NTS. Following a Presidential mandate, nuclear weapons testing was suspended in October 1992, with a stipulation that a readiness posture must be maintained.

To date, there have been 1,054 nuclear tests conducted by the United States, 928 of which were performed at the NTS. These operations generated residual radioactive and hazardous waste that contaminated the surface and subsurface environment. DOE established the Environmental Management Program to address the issue of remediating and disposing of accumulated waste and contamination.

The primary mission of the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office (NSO) has shifted from nuclear testing to stockpile stewardship. Activities at the NTS also reflect NSO's changing mission. Work conducted at the NTS now focuses on subcritical and other weapons physics experiments, emergency management and test readiness activities, environmental restoration, low-level radioactive waste management, and work for national security organizations and experimental programs. In an effort to further diversify opportunities at the NTS, NSO has developed partnerships with private industry, national laboratories, and other federal, state, and local entities to develop new technologies.

### ***The Environment at the NTS***

The NTS is located approximately 65 miles northwest of Las Vegas. Located within the Great Basin, the NTS is home to a diverse and complex mosaic of plant and animal communities representative of both deserts and the transition zone between the deserts. Some 700 species of

plants have been found across the NTS. Although extensive surveys over most of the NTS have been conducted, no plants have been identified as threatened or endangered.

Nearly 2,000 types of insects, birds, animals, and reptiles inhabit the NTS. Wild horses range over areas of the NTS. One bald eagle and one peregrine falcon, listed as endangered by the State of Nevada, have been seen on the NTS. The only animal species found on the NTS that is listed as threatened by the State of Nevada and the U.S. Fish and Wildlife Service is the desert tortoise. About eight percent of the NTS has been disturbed by testing and other support activities. The remaining 92 percent supports typical regional plant and animal life.

The Nevada Test and Training Range provides a buffer zone on the east, north, and west borders of the NTS and the Bureau of Land Management oversees the land bordering the southern and southwestern boundaries of the NTS. This unpopulated area covers some 5,470 square miles, making it one of the largest contiguous unpopulated land areas in the United States.

## ***Attachment 2: Information Request Form***

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If you are not currently on the EM electronic mailing list and would like to receive the *EM Update* and Community Advisory Board meeting announcements, please provide the following information:

**Name:** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Street/Box/Apt. No.:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **Zip:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**To:** **Kelly Snyder**  
**Environmental Management**  
**U.S. Department of Energy**  
**P.O. Box 98518**  
**Las Vegas, Nevada 89193-8518**

## **Attachment 3: Environmental Management Product Listing**

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### **Environmental Management**

- EM Update publication/newsletter
- Environmental Management Public Involvement* brochure
- Environmental Management Overview* brochure/quadfold
- Environmental Management Speakers Bureau* brochure
- Environmental Management: An Overview* video

### **Environmental Restoration**

- Environmental Restoration...an Overview* fact sheet
- Groundwater Studies & the Underground Test Area Project* video
- Groundwater...at the Nevada Test Site* fact sheet
- Industrial Sites Project...an Approach to Cleanup* fact sheet
- Industrial Sites...a Success Story* fact sheet
- Innovation, Remediation, Restoration: "All in a Day's Work for Industrial Sites Workers"* (11/01) video
- Soils Project...an Approach to Cleanup* fact sheet
- Tonopah Test Range* fact sheet
- Underground Test Area Project Questions and Answers*

### **Waste Management**

- Low-Level Waste...at the Nevada Test Site* fact sheet
- Mixed Low-Level Waste Acceptance Guideline at the Nevada Test Site* fact sheet
- Mixed Low-Level Waste...at the Nevada Test Site* fact sheet
- Radioactive Waste Acceptance Program at the Nevada Test Site* fact sheet
- Transporting Low-Level Waste to the Nevada Test Site* brochure
- Transuranic Waste...at the Nevada Test Site* fact sheet
- Waste Management at the Nevada Test Site* (11/03) video
- Waste Management...at the Nevada Test Site* fact sheet

### **Miscellaneous**

- Federal Facility Agreement and Consent Order* fact sheet
- Planning and Budgeting for the Future* fact sheet
- Regulatory Requirements and Agreements* fact sheet

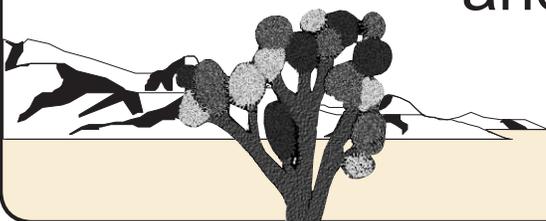
# **Appendix VI**

## **Corrective Action Strategy**

Revision No.: 1

December 7, 2000

Federal Facility Agreement  
and Consent Order  
(FFACO)



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## ***List of Acronyms and Abbreviations***

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CADD	Corrective Action Decision Document
CAI	Corrective Action Investigation(s)
CAIP	Corrective Action Investigation Plan
CAP	Corrective Action Plan
CAS	Corrective Action Site(s)
CAU	Corrective Action Unit(s)
CNTA	Central Nevada Test Area
DoD	Department of Defense
DOE	U.S. Department of Energy
DOE/DP	U.S. Department of Energy/Defense Program
DOE/ER	U.S. Department of Energy/Environmental Restoration
DOE/NV	U.S. Department of Energy, Nevada Operations Office
DQO	Data Quality Objective(s)
FFACO	<i>Federal Facility Agreement and Consent Order</i>
FY	Fiscal Year
LTHMP	Long-Term Hydrologic Monitoring Program
NAFR	Nellis Air Force Range
NDEP	Nevada Division of Environmental Protection
NTS	Nevada Test Site
PSA	Project Shoal Area
RCRA	<i>Resource Conservation and Recovery Act</i>
SAFER	Streamlined Approach for Environmental Restoration
SWDA	<i>Safe Water Drinking Act</i>
TTR	Tonopah Test Range
UGTA	Underground Test Area

## **1.0 Introduction**

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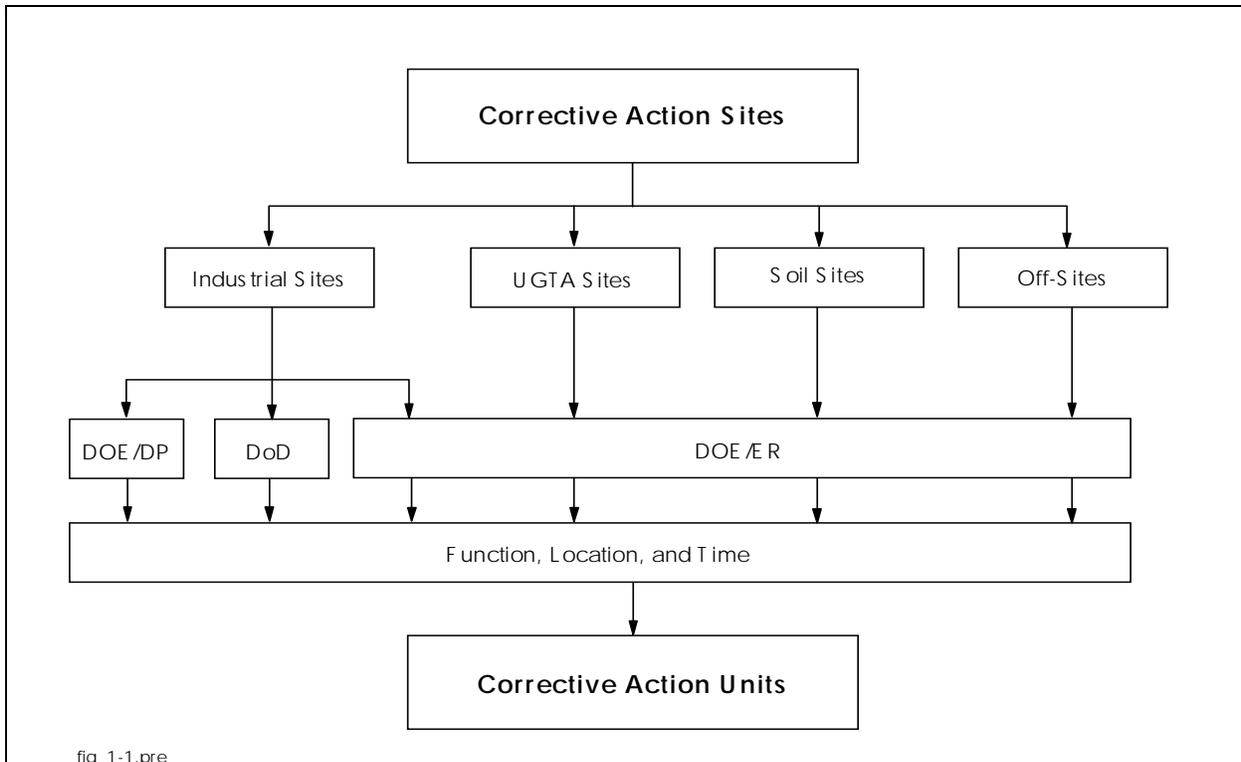
Appendix VI to the Federal Facility Agreement and Consent Order (Agreement) describes the strategy that will be employed to plan, implement, and complete environmental corrective action activities at facilities where nuclear-related operations were conducted in Nevada. The nuclear tests and associated support activities were conducted at the Nevada Test Site (NTS), parts of the Tonopah Test Range (TTR) and Nellis Air Force Range (NAFR), and at the Project Shoal Area (PSA), and the Central Nevada Test Area (CNTA) located in northern and central Nevada, respectively. Agencies, herein referred to as parties, responsible for the activities described in this appendix are the U.S. Department of Energy (DOE) and the U.S. Department of Defense (DoD). These agencies will follow this strategy to accomplish corrective action investigations (CAIs) and corrective actions at the facilities specified in Appendix I (Description of Facilities) of this Agreement, as overseen by the Nevada Division of Environmental Protection (NDEP). DoD's responsibilities are limited to those areas at the NTS where DoD has conducted activities.

The corrective action strategy is based on four steps: (1) identifying corrective action sites (CASs), (2) grouping the CASs into corrective action units (CAUs), (3) prioritizing the CAUs for funding and work, and (4) implementing the CAIs and/or corrective actions, as applicable.

CASs are broadly organized into four categories based on the source of contamination: (1) Industrial Sites, (2) Underground Test Area (UGTA) Sites, (3) Soil Sites, (4) Off-Sites. CASs located on the NTS and TTR where activities were conducted that supported nuclear testing activities are grouped as Industrial Sites. CASs where most underground nuclear test events have resulted or might result in local or regional impacts to groundwater resources are grouped as the UGTA CAUs. CASs where tests have resulted in extensive surface and/or shallow subsurface contamination are grouped as the Soil Sites. Additional CASs associated with underground nuclear testing at PSA and CNTA, located in northern and central Nevada respectively, are grouped as Nevada Off-Sites. All nuclear tests shall be addressed under the above categories (2), (3), or (4).

### **1.1 Identifying Corrective Action Sites**

The first step in the strategy is to identify CASs potentially requiring CAIs and/or corrective actions and to place them into Appendix II (Corrective Action Sites/Units) of the Agreement. As CASs are identified, a literature search may be completed and each CAS will be verified on



**Figure 1-1**  
**Assignment of Corrective Action Sites to Corrective Action Units**

aerial photographs or in the field to confirm the condition and location of the CAS. A data repository has been created containing or referencing all information currently available for each CAS. It includes, at a minimum, the CAS location, waste description, responsible agency, and information presented in Appendix II (Corrective Action Sites/Units).

### **1.2 Grouping Corrective Action Sites**

CASs will be grouped into CAUs following the process presented in Figure 1-1 and the criteria described below. Appendix II (Corrective Action Sites/Units), may contain CASs that have not yet been grouped into CAUs, and it is possible that a CAU may contain only one CAS. Criteria for grouping CASs into CAUs include the following:

1. What is the potential source of contamination?
2. Which agency is responsible for cleanup of the CAS?
3. What was the function of the CAS, and therefore, the nature of the contamination?

4. Do the CASs have geographic commonality, or are the CASs located in close enough proximity to be investigated as a CAU?
5. Can investigation or cleanup of grouped CASs be accomplished within a similar time frame?

Appendix II (Corrective Action Sites/Units) of this Agreement will be reviewed periodically by DOE/NV, DoD, and NDEP to determine whether CASs are appropriately organized into CAUs.

### **1.3 Prioritizing Corrective Action Units**

Prioritization of CAUs will be proposed by DOE/NV and DoD, as appropriate. The proposed priorities and explicit justifications will be presented to NDEP for review. NDEP may agree with the basis for the prioritization and the criteria specified, or suggest alternatives. CAUs will be reprioritized as applicable per the results of the NDEP review and discussions on issues and priorities held during scheduled quarterly meetings. During the first quarterly meeting of each Federal fiscal year, DOE, DoD, and NDEP will review and reconsider established priorities, milestones, and associated due dates and deadlines for the current fiscal year (FY).

At the second quarterly meeting, the parties will address the development of proposed CAU priorities for FY +2. The proposal will include milestones with associated due dates and deadlines. The proposed prioritization will then be presented to the public and the Community Advisory Board for input. DOE, DoD, and NDEP will subsequently develop a final prioritization of CAUs scheduled for CAIs and corrective actions prior to March 15 of each year.

During the fourth quarterly meeting DOE, DoD, and NDEP will review and reconsider established priorities, milestones, and associated due dates and deadlines for CAUs for FY+1.

This entire process is pursuant to paragraph XII.4 of this Agreement.

A listing of criteria (arranged alphabetically) that may be used to prioritize CAUs is presented in [Table 1-1](#).

#### **1.3.1 Public Involvement**

The public, particularly through the Community Advisory Board for Nevada Test Site Programs, has the opportunity to become involved early in the corrective action investigation/corrective

**Table 1-1  
Potential Criteria for Prioritizing CAUs**

Criteria	Description
Assessment of risk	Does the risk to workers, and/or the general public, and/or to the ecosystem require a CAI, a corrective action, or no further action?
Available technology	Are the technologies available for corrective action effective and not cost prohibitive?
Cost	Can the CASs within the CAUs be addressed within known or expected budget constraints?
Future use	What are the possible future land or resource uses?
Geographic location	Is the CAU located in an area that requires more immediate action than others?
Interdependency of action	Are planned or ongoing operations likely to have an effect on the priority of a CAI and/or corrective action?
Optimization of resources	Have all resources been analyzed and used to their fullest practical extent?
Priorities of the parties	What are the priorities of the parties for the CAUs?
Presence of cultural resources or sensitive species	Do CAUs contain CASs where cultural resources or sensitive species are known or expected to be encountered? Will these CAUs require additional time and cost for surveys and mitigation prior to or concurrently with the corrective action?
Regulatory requirements	Are some CAIs and/or corrective actions mandated by regulatory requirements to be accomplished first? Are there other regulatory requirements that must be met (for example, must a National Environmental Policy Act document be completed or a threatened and endangered species survey accomplished prior to the start of a CAI and/or corrective action)?
Schedule	Are CAIs and/or corrective actions scheduled to allow efficient utilization of resources such as labor and equipment?
Stakeholders' concerns	Do stakeholders have additional criteria, concerns, or alternatives to propose?
Time required to complete action	How long will it take to complete the CAI and/or corrective action?
Waste management concerns	Are facilities and technologies available to effectively manage the waste expected to be generated by corrective actions?

action process. The Board's comments will be strongly considered before final prioritization of corrective actions. In addition, a public participation working group made up of representatives from DOE, DoD, the State of Nevada, and the Community Advisory Board will meet two times a year to discuss upcoming environmental restoration activities and the level of public involvement required. These meetings will focus on the quarterly progress reports and priority-setting activities established under the Agreement. Detailed public involvement opportunities are outlined in Appendix V (Public Involvement Plan).

### **1.3.2 Historic CASs and New Releases**

The historic Resource Conservation and Recovery Act (RCRA) sites governed by Section V of DOE's RCRA permit number NEV HW009 (RCRA Permit) will be prioritized with the CAUs regulated by this Agreement. However, closure of these sites shall be in accordance with the appropriate requirements of Title 40 *Code of Federal Regulations* (CFR) 265, as adopted by Nevada Administrative Codes 444.8632 and 444.8634, inclusive.

Contamination caused by new spills or releases from operational activities will not be covered under this Agreement. Priorities established in Appendix III (Corrective Action Investigations/Corrective Actions) may be reconsidered based upon the circumstances involving new releases.

### **1.4 Corrective Action Investigation and Corrective Action Documents**

A series of documents will be prepared to plan and guide CAI and corrective action activities.

- Corrective Action Investigation Plan(s) (CAIP): A document that provides or references all the specific information for planning investigation activities associated with corrective action units. A CAIP may reference information in the optional CAU work plan or other applicable documents. If a CAU work plan is not developed, then the CAIP must include or reference all the management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information needed to conduct the investigations in compliance with established procedures and protocols.
- Corrective Action Unit Work Plan(s) (CAU work plan): An optional planning document that provides information for a CAU or a collection of CAUs where significant commonality exists. This plan may be developed to eliminate redundant CAU documentation and may contain management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information. This common information will be referenced in appropriate CAIPs.

- **Corrective Action Decision Document (CADD):** A document that provides the corrective action that is selected as the result of investigation activities and the rationale for its selection. The rationale consists of an analysis of the possible alternatives and may reflect a decision ranging from no action to clean closure.
- **Corrective Action Plan (CAP):** A document that provides the plan for implementing the selected corrective action alternative. This plan shall contain a detailed description of the proposed actions that will be taken to achieve the degree of containment set forth in the NDEP-approved CADD.
- **Streamlined Approach for Environmental Restoration (SAFER) Plan:** A document that provides a plan for initiating and completing corrective actions at CAUs where enough information exists to predict the appropriate corrective action before completing a CAI. The plan will incorporate the essential elements of the CAIP, the CADD, and the CAP to allow work to proceed directly from the CAI to the corrective action.
- **Closure Report:** A document that states that the completed corrective action was conducted in accordance with the approved CAP and provides to NDEP all necessary support data to confirm that the appropriate corrective action took place.
- **Notice of completion:** An NDEP-issued document signifying the completion of the CAU corrective action in accordance with the approved plans.

### **1.5 Implementing Corrective Action Investigations and Corrective Actions**

If a CAU is prioritized for a CAI or corrective action within the 3-year planning window, that CAU and associated CASs will be transferred from Appendix II (Corrective Action Sites/Units), to Appendix III (Corrective Action Investigations/Corrective Actions). A preliminary characterization will be performed based on existing data. The data will be used to develop conceptual models to determine appropriate investigative and corrective action tasks, as well as to select a corrective action process.

Data Quality Objectives (DQOs) will be incorporated throughout the corrective action process. The DQO process is a series of planning steps designed to ensure that environmental data used in decision making are appropriate. DQOs are qualitative and quantitative statements that help guide corrective action plans and decisions. These statements will help assure that data are of sufficient quality and quantity to support defensible decisions and at the same time reduce data collection costs by eliminating unnecessary, duplicative, or overly precise data. DQOs will be developed by the parties with NDEP participation, to assist in development of appropriate work scope.

Assessment of risk to the affected resource (a special application of environmental risk assessment) may be used as needed, along with other appropriate evaluations, to help in establishing appropriate action and/or cleanup levels, particularly where no regulatory levels have been established or where multiple contaminants complicate the evaluation.

When required, interim corrective actions will be carried out where immediate risk exists to workers, the public, and/or the environment. Sufficient data must exist at these CAUs to demonstrate that actions can be taken to stabilize, minimize, or mitigate the contamination until the final corrective action can be completed.

The process for implementing CAIs and/or corrective actions has been subdivided into three flowpaths that are based on the existing CAS data and on-site conditions: the housekeeping process, the SAFER process, and the complex process. [Figure 1-2](#) describes the generic corrective action processes that will be used to determine appropriate CAU activities.

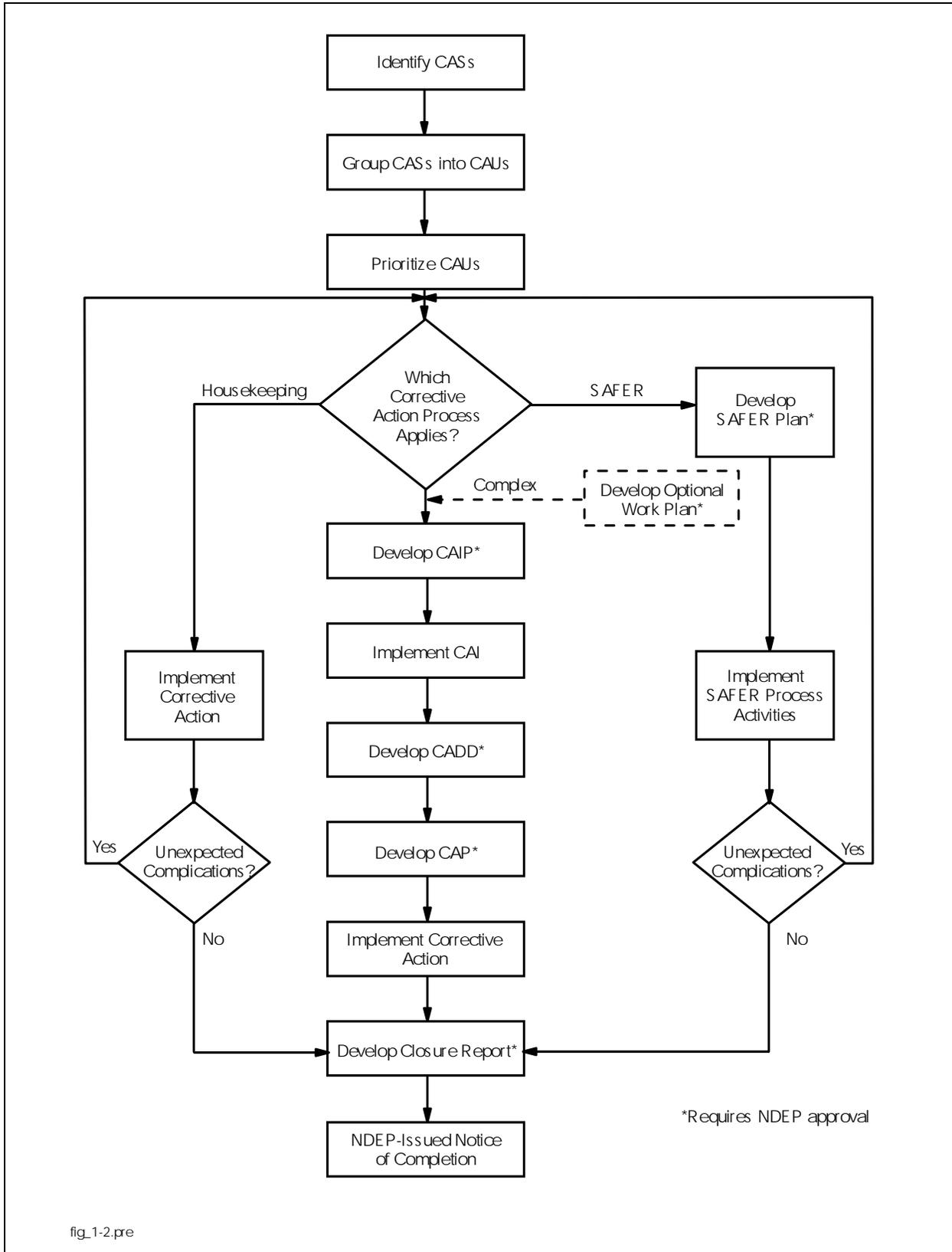
### **1.5.1 Housekeeping Process**

The housekeeping process will be used for CASs that do not require further investigation prior to completing the corrective action. At these CASs, data gathered during records searches and field verification activities sanction the removal of source materials, directly impacted soil, and subsequent confirmatory sampling without additional investigation. A work plan containing developed procedures for conducting these activities will be written and revised as needed in coordination with NDEP. Documentation of the source removal and confirmation sampling, if required, will be through a closure report.

### **1.5.2 SAFER Process**

The SAFER process will be employed at CAUs where the parties agree that enough information exists about the nature and extent of contamination to propose an appropriate corrective action prior to the completion of a CAI. This process combines elements of the DQO process and the observational approach to help plan and conduct corrective actions. DQOs will be used to define the type and quality of data needed to complete the investigation phase of the process. The observational approach will provide a framework for managing uncertainty and planning decision making.

The purpose of the investigation in the SAFER process will be to document and verify the adequacy of existing information; to affirm the decision for either clean closure, closure in place, or no further action; and to provide sufficient data to implement the corrective action. Actions



fig\_1-2.pre

**Figure 1-2  
 Generic Correction Action Process**

and decisions for this process are governed by SAFER Plans. These plans incorporate the required elements of CAIPs, CADDs, and CAPs to allow work to proceed directly from the CAI to the corrective action. The plans will identify decision points where DOE and/or DoD will reach consensus with NDEP prior to beginning the next phase. Following completion of SAFER activities, or if the selected remedy is no further action, a closure report will be prepared and submitted to NDEP.

### **1.5.3 Complex Process**

The complex process will be used for those CAUs where additional information is needed for the evaluation of possible corrective action alternatives. The CAIPs for CAUs following the complex process will focus on the investigation tasks required to prepare the CADD and will include the DQO process. As part of this process, conceptual models for CASs will evolve as data are collected and reviewed. When the investigation is complete, a CADD will be prepared to evaluate corrective action alternatives and to identify the selected corrective action.

Following NDEP approval of the selected corrective action outlined in the CADD, a CAP will be developed. This plan will be the document guiding the CAU corrective action. After completion of the corrective action, or if the selected corrective action is no further action, a closure report will be developed and submitted to NDEP.

NDEP will issue a notice of completion upon approval of the completion of a corrective action, and the CAU may be transferred from Appendix III (Corrective Action Investigations/Corrective Actions) to Appendix IV (Closed Corrective Action Units). If long term monitoring is necessary, the monitoring requirements for CASs or CAUs on facilities subject to the RCRA Permit will be incorporated into the Permit. Long-term monitoring requirements for CASs or CAUs on facilities not subject to the RCRA Permit will be outlined in closure reports.

## **2.0 Industrial Sites**

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The current inventory of environmental restoration CASs at the NTS, TTR, and NAFR indicates a widespread distribution of approximately 1,150 Industrial Sites that may require some level of investigation and corrective action.

### **2.1 Corrective Action Units**

Industrial Site CASs will be grouped into CAUs based on four criteria: (1) responsible party (2) site function, (3) geographic location, and (4) length of time needed to complete the action. CASs will first be assigned to CAUs based on the agency responsible for the investigation and/or corrective action. CASs will then be grouped by function when they share similar technical issues and waste types. CASs with similar functions may be grouped geographically with other CASs to facilitate corrective actions. It is possible that the cleanup of a specific geographic area, such as a portal tunnel area, will be considered a priority, in which case a CAU may contain CASs with a variety of functions. Finally, CASs will be grouped into CAUs according to the length of time needed to complete the corrective actions.

[Table 2-1](#) contains a listing of functional categories that represent the types of CASs normally considered as Industrial Sites. These categories range from landfills, mud pits, leachfields, etc., with or without radiological contamination, to discarded or abandoned materials such as drums, batteries, and lead materials. CASs with materials that are easily disposed of are considered to be housekeeping sites, and account for approximately one-third of all Industrial Site CASs.

### **2.2 Corrective Action Strategy**

Corrective actions for Industrial Site CAUs will range from no action to clean closure. The types of corrective actions may be as simple as small, isolated housekeeping site source removals to large-scale, multi-faceted projects addressing shallow groundwater and subsurface soil contamination. To further define the corrective actions for the wide range of Industrial Sites, the overall corrective action process has been subdivided into three possible process flowpaths: (1) the housekeeping process, (2) the SAFER process, and (3) the complex process. Decisions to use specific processes are based on the complexity of the CAS conditions and the possibility of choosing corrective action alternatives before investigations are complete. Each of these processes and their respective flowpaths are described further in Section 2.3.

**Table 2-1  
Industrial Sites Functional Category**

<b>Functional Category</b>	<b>Functional Category</b>
Aboveground Storage Tank	Mud Pit
Abandoned Chemicals	Oil/Fuel Spills (nonhousekeeping)
Boiler	Other Ponds/Lagoon
Building	Other Spill Sites
Buried Ordnance Site	Radiologically Contaminated Area
Burn Cage	Sanitary Landfill
Cable Hole	Septic Tank
Chemical Storage	Sewage Lagoon
Conditional Release Storage Yard	Shaft
Construction Waste Landfill	Shaker Plant
Decontamination Pad	Sludge Burial Pit
Decontamination & Decommissioning Facility	Solid Propellant Burn Site
Depleted Uranium Surface Debris Area	Steam Cleaning Facility
Drillback Sump/Cellar	Tunnel
Drillhole	Tunnel Pond
Fire Training Area	Tunnel Portal Area
Generator	Underground Discharge Point
Hazardous Waste Accumulation Site	Underground Storage Tank
Housekeeping Site <sup>a</sup>	Vent Hole
Injection Well	Waste Disposal Trench
Leachfield	Waste Disposal Site
Lead (nonhousekeeping)	Waste Dump
Magazine/Bunker	Miscellaneous
Muck Pile	

<sup>a</sup>Examples of wastes at housekeeping sites are: hazardous constituents such as abandoned chemicals, drums/barrels, lead shielding, other spill sites; petroleum sites such as epoxy tar sites, oil/fuel spills; others such as batteries, buckets/cans, compressed gas cylinders; miscellaneous; transformers/polychlorinated biphenyls (PCBs); trash/debris.

The preparation of plans and their contents will correspond with the complexity of each CAU and the chosen corrective action process. If appropriate, each CAS will have a CAIP. The CAIP will contain or reference all necessary management and technical information. Optional CAU work plans may be written and referenced if information applies to all CASs in a CAU, or if CAUs are sufficiently similar to facilitate the use of common information.

CADDs, CAPs, and closure reports will be prepared, as necessary, to guide and document corrective action decisions and activities. If sufficient information exists at a particular CAU to plan the corrective actions prior to completion of the investigation, a SAFER Plan may be prepared. This plan will contain all the necessary elements usually found in CAIPs, CADDs, and CAPs.

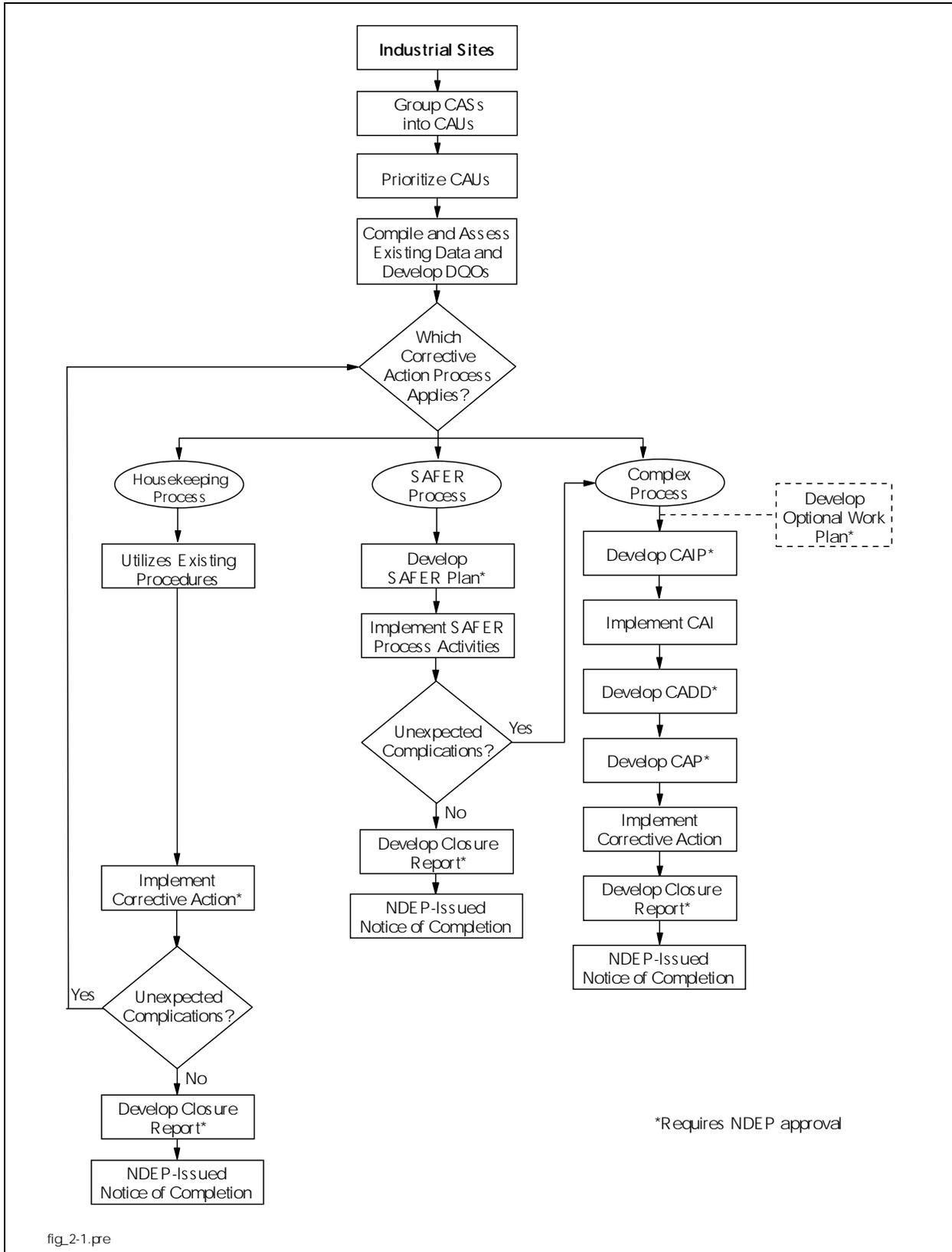
### **2.3 Implementing Corrective Action Investigations and Corrective Actions**

CAUs will be prioritized for corrective action and listed in Appendix III (Corrective Action Investigations/Corrective Actions). A preliminary characterization will be performed based on existing data. These data will be used to develop conceptual models to determine appropriate investigation and corrective action tasks, as well as to select a corrective action process. DQOs will be developed by DOE and/or DoD as appropriate, with NDEP participation, to assist in the development of work scope. Stakeholder input may be required depending upon the nature of the work scope.

One of three corrective action processes will be selected as appropriate for the CAU based on site conditions. The following sections describe the work flow process and decision points necessary to implement corrective actions for Industrial Sites ([Figure 2-1](#)).

#### **2.3.1 Housekeeping Process**

CAUs that may be closed through the housekeeping process are distinguished from other Industrial Site CAUs because they do not require further investigation prior to closure. Hundreds of housekeeping CASs are anticipated to have sufficient data, gathered during records searches and field verification activities, to warrant removal of source materials and confirmatory sampling or to warrant recommendation for closure, if materials have already been removed. Source removal, waste disposition, and appropriate confirmatory sampling will be conducted in accordance with established work plans.



fig\_2-1.pre

**Figure 2-1  
 Industrial Sites Corrective Action Process**

Documentation of the source removal and confirmatory sampling, if required, will be through a closure report, which will represent the formal, “no further action” recommendation for each CAS within a housekeeping site CAU. If a housekeeping CAS proves more complex than anticipated, such as finding an unexpected waste type, the CAS will be recommended for inclusion into a different CAU that will follow another process flowpath.

CASs falling into the housekeeping site functional category are widespread, especially at the NTS. Although many of these CASs have already been identified and are being closed through the housekeeping process as part of the Environmental Restoration Sites Inventory, new housekeeping CASs may regularly be identified as part of everyday operational activities at the NTS. When previously unidentified materials fitting into the housekeeping category are encountered in the field, they will be identified and marked as a new CAS and added to Appendix II (Corrective Action Sites/Units).

Newly identified recyclable or sanitary waste materials, when not associated with visible staining and when not located in a known contamination area, will be noted and tallied. They will not be identified as a new CAS or marked in the field. A list of these sites will be compiled and updated regularly for inclusion in periodically scheduled NTS cleanup activities of nonhazardous waste types. Examples of the types of materials that will not be staked as new CASs include empty drums; empty cans or buckets; intact batteries, construction debris such as untreated lumber, rebar, or concrete; and recyclable materials such as cable, steel, drill pipe, empty gasoline cans, empty gas cylinders, and nuts and bolts.

### **2.3.2 SAFER Process**

CAUs that may be closed through the SAFER process have conceptual corrective actions that are clearly identified. Consequently, corrective action alternatives can be chosen prior to the completion of an investigation given anticipated CAI results.

The SAFER process requires some degree of investigation to determine whether the appropriate corrective action will be a clean closure, closure in place, or no further action. The purpose of the investigation will be to document and verify the adequacy of existing information; to affirm the decision for either clean closure, closure in place, or no further action; and to provide sufficient data to implement the corrective action. Risk assessment requirements and criteria will be formulated by the parties with NDEP participation, prior to the submittal of the SAFER Plan.

The SAFER Plan will be the primary document governing actions and decisions at CAUs employing the SAFER process. The plan will incorporate required CAIP, CADD, and CAP elements to allow work to proceed directly from the CAI to the corrective action. The plans will identify decision points, developed in cooperation with NDEP, where DOE and/or DoD will reach consensus with NDEP prior to beginning the next phase of work. If specific conditions or findings fall outside the bounds of the SAFER Plan, the CAS will be transferred into an appropriate CAU and the complex process used. SAFER Plans may require stakeholder review prior to implementation. Following the completion of SAFER activities, a closure report will be prepared and submitted to NDEP.

### ***2.3.3 Complex Process***

The complex process differs from the SAFER process because the CAU corrective action alternatives cannot be chosen before the CAI has been completed. The CAIPs for these CAUs will focus on investigation tasks required to prepare CADDs and will include the DQO process. When data have been collected and the investigation is complete, a CADD will be prepared to evaluate corrective action alternatives and the selection of the appropriate corrective action.

Following NDEP approval of the CADD, a CAP will be developed and the corrective action initiated. A closure report will be developed to document the completion of corrective action activities and submitted to NDEP. After approval of the corrective action, NDEP will issue a notice of completion and the CAU will be moved to Appendix IV (Closed Corrective Action Units).

Risk assessment requirements for CAUs which follow the complex process will be identified in the DQO process. Many of the CAUs following the complex process may be dominated by contaminants without established regulatory levels. In addition, the location of the site and intended future land use may require assessment of risk as an element in the evaluation of closure activities.

## **3.0 Underground Test Area**

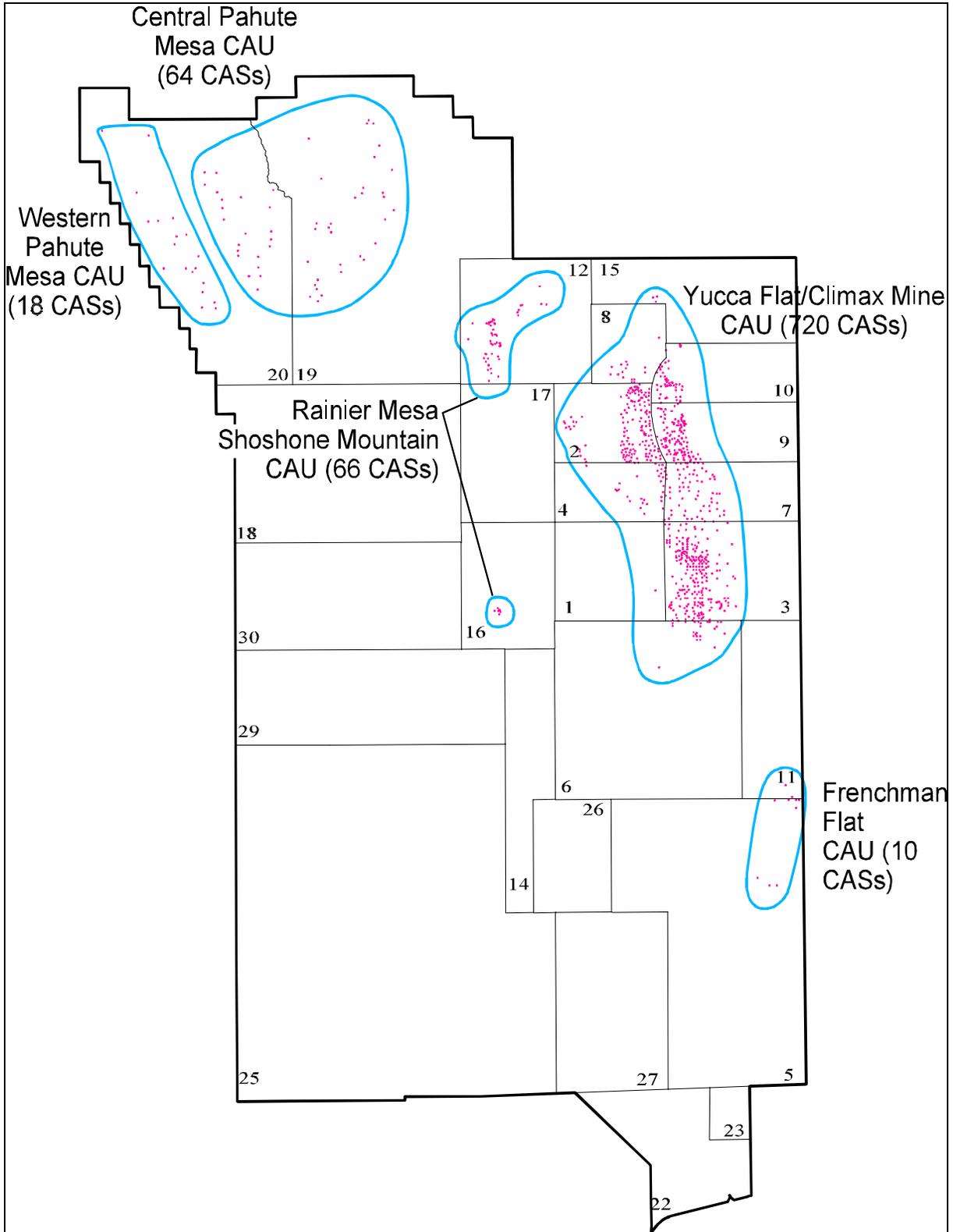
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A total of 908 historical nuclear detonations occurred in shafts or tunnels at the NTS. They are categorized into 878 CASs assigned to the UGTA. These CASs are grouped into five CAUs. CASs in each CAU are located near each other, and CAUs are geographically distinct. CAUs have distinctly different contaminant source, geologic, and hydrogeologic characteristics related to their location.

### **3.1 Corrective Action Units**

The CAUs, shown in [Figure 3-1](#), are listed below:

- Frenchman Flat CAU consists of 10 CASs located in the northern part of Area 5 and the southern part of Area 11. These events were conducted in both vertical emplacement holes and mine shafts. The events in Frenchman Flat were located in alluvium of great depth. The deeper geology is not well known. Lateral transport in the alluvium is very slow due to the low lateral gradient.
- Western Pahute Mesa CAU consists of 18 CASs along the western edge of Area 20. These events were all conducted in vertical emplacement holes. This CAU is separated from Central Pahute Mesa by the Boxcar Fault and is distinguished by the relative abundance of tritium. Transport of contaminants on and from Western Pahute Mesa involves groundwater flow in both welded and vitric tuffs, both in the rock matrix and in the fracture system.
- Central Pahute Mesa CAU consists of 64 CASs in Areas 19 and 20 on Pahute Mesa. These events were all conducted in vertical emplacement holes. Transport of contaminants on and from Central Pahute Mesa involves groundwater flow in fractures and the rock matrix, in welded and vitric tuffs, and lava flow aquifers. The influence of the large-scale block faulting is not well known.
- Yucca Flat/Climax Mine CAU consists of 717 CASs located in Areas 1, 2, 3, 4, 6, 7, 8, 9, 10, and 3 CASs located in Area 15. These events were conducted in vertical emplacement holes and tunnels. Contaminant transport in Yucca Flat/Climax Mine may involve alluvium, both welded and vitric tuffs, fractured granite, and carbonate rocks.
- Rainier Mesa/Shoshone Mountain CAU consists of 60 CASs on Rainier Mesa and 6 CASs on Shoshone Mountain, located in Areas 12 and 16. These events were all conducted above the water table in tunnels constructed in bedded and non-welded vitric and zeolitized volcanic tuffs.



**Figure 3-1**  
**Underground Test Area Corrective Action Units**

The process outlined in Section 1.3 was used for the initial prioritization of UGTA CAUs. The first three CAUs are in priority order, but the priority of the remaining CAUs may change as they become specifically addressed in the planning process.

### **3.2 Corrective Action Strategy**

The corrective action strategy for UGTA is based on the complex corrective action process. The objective of the CAI process is to define boundaries around each UGTA CAU to establish areas that contain water that may be unsafe for domestic and municipal use. Any ambiguity resulting from different language used in this subpart of Appendix VI versus the body of the FFACO Agreement shall be resolved in favor of terms and conditions found in the body of the FFACO Agreement.

The UGTA Corrective Action Strategy was developed to address the contamination created by the testing of nuclear devices in shafts and tunnels at the Nevada Test Site. The objective of the strategy is to analyze and evaluate each UGTA CAU through a combination of data and information collection and evaluation, and modeling groundwater flow and contaminant transport. This analysis will estimate the vertical and horizontal extent of contaminant migration for each CAU in order to predict contaminant boundaries. A contaminant boundary is the model-predicted perimeter which defines the extent of radionuclide-contaminated groundwater from underground testing above background conditions exceeding the *Safe Drinking Water Act* (SDWA) standards. The contaminant boundary will be composed of both a perimeter boundary and a lower hydrostratigraphic unit boundary. The computer model predicts the location of this boundary within 1,000 years and must do so at a 95% level of confidence. Additional results showing contaminant concentrations and the location of the contaminant boundary at selected times will also be presented. These times may include the verification period, the end of the five-year proof of concept period, as well as other times that are of specific interest.

From the contaminant boundary predicted by the computer model, a compliance boundary will be negotiated between NDEP and DOE. The compliance boundary will define the area within which the radiological contaminants above the SDWA standards relative to background are to remain. DOE will be responsible for ensuring compliance with this boundary. The compliance boundary may or may not coincide with the contaminant boundary. If the predicted location of the contaminant boundary cannot be accepted as the compliance boundary, an alternate compliance boundary will be negotiated by both parties.

An initial assumption is that contaminant control will not be required. After establishing a compliance boundary for each CAU, an evaluation of remedial alternatives and a monitoring Corrective Action Plan will be developed. A 5-year proof of concept period will follow using groundwater wells in a monitoring network to determine if the monitoring network design will provide adequate CAU surveillance. If the monitoring network is found acceptable, a closure plan will then be developed, followed by implementation of a long-term closure monitoring program.

The long-term closure monitoring program will address any contamination left in place in a closed CAU. This program consists of all activities necessary to ensure protection of human health and the environment following the completion of corrective actions at a CAU. These activities will include periodic analysis of monitoring results, determining optimum performance indicators, evaluation of monitoring performance criteria, locating new monitoring wells and replacing existing monitoring wells to support performance criteria evaluation at timed intervals of interest within the 1,000-year time period.

A model of regional flow encompassing the NTS and the groundwater flow systems extending to downgradient discharge has been completed. Regional modeling is a cross-cutting activity, supporting the entire UGTA program, which provides the initial basis for assessing flowpaths from CAUs, determining potential receptors, evaluating isolation or interaction of CAUs, and creating a consistent hydrogeologic framework across all the CAUs. Regional transport modeling provides the initial basis for determining the magnitude of risk from the source to potential receptors and for scaling individual CAU work.

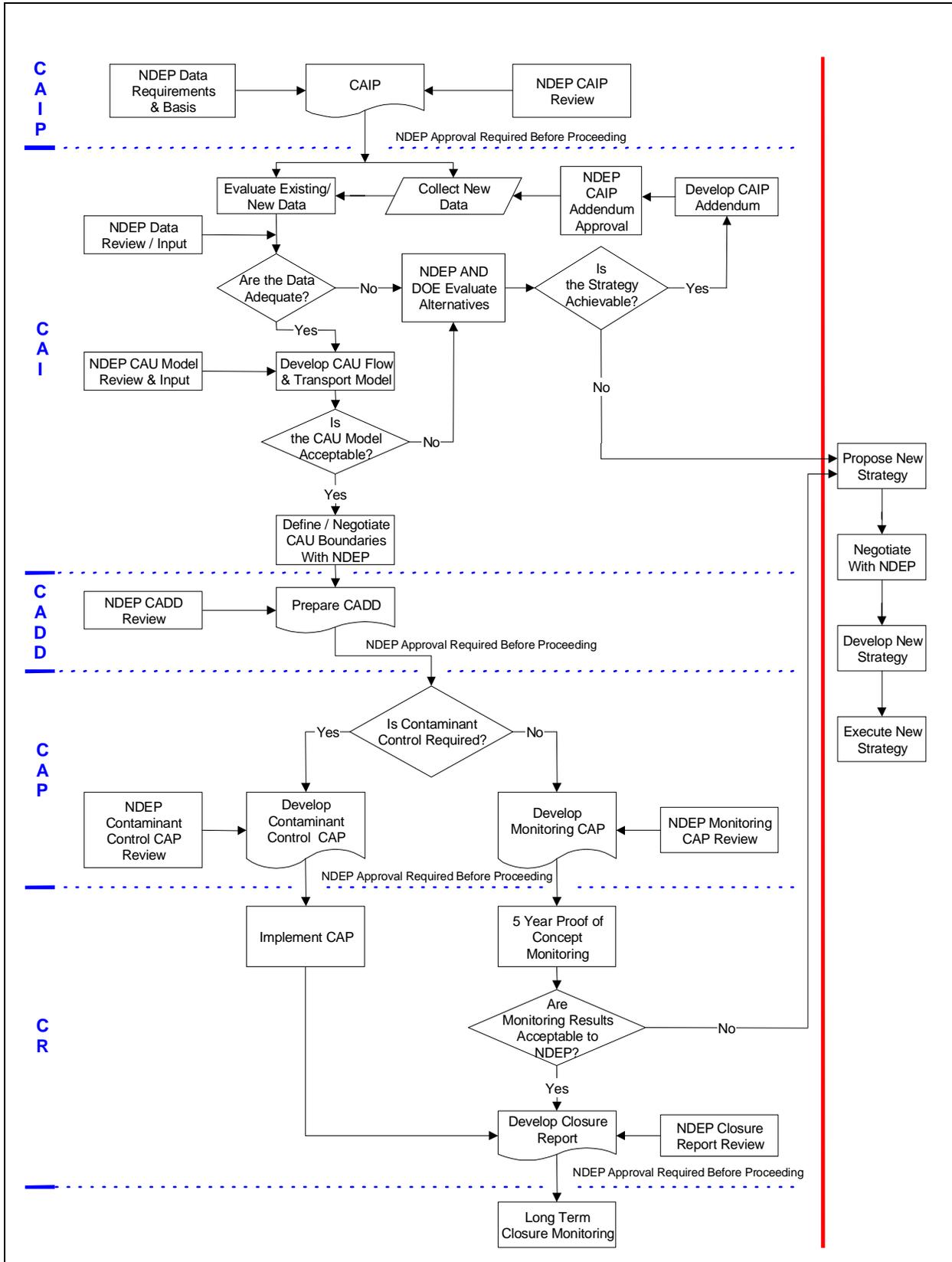
The second phase of the CAI process will focus on refining CAU boundaries through CAU-specific models that include CAU-specific data. The CAU-specific modeling objectives are to estimate movement of contaminants utilizing the acquisition and evaluation of CAU-specific hydrogeologic data and define boundaries that encompass the extent of contamination. If CAU-specific modeling is not successful in achieving CAU objectives, this strategy will be evaluated to determine whether it will allow the objectives to be reached. If it is not possible or feasible to achieve the objectives, it may be necessary to reevaluate and consider alternative approaches.

Figure 3-2 is a diagram of the generalized decision process leading to the closure of CAUs. The process contains five major decision points where data and/or data analysis are reviewed and consensus reached before proceeding with the next phase of corrective action activities. The first of these major decisions is the determination of data adequacy prior to developing the CAU flow and contaminant transport model. If the data are not adequate, alternatives will be evaluated, and the second major decision point, a decision on whether the UGTA strategy can be achieved, will be reached. If the strategy can be achieved, an addendum to the CAIP will then be developed. If the strategy cannot be achieved, a new strategy will then be proposed. If the data are adequate, the CAU flow and transport model will be developed.

The third major decision concerns the acceptability of the CAU flow and transport model. If the CAU flow and transport model is not acceptable, the alternatives will be evaluated and, again, the second major decision point, a decision on whether the UGTA strategy can be achieved, will be reached. If the strategy can be achieved, an addendum to the CAIP will then be developed. If the strategy cannot be achieved, a new strategy will then be proposed. If the CAU model is acceptable, the CAU boundaries will be defined.

The model results, along with the results of the CAI, will be utilized for an evaluation of remedial alternatives and a proposed remedial action. The fourth major decision is whether contaminant control is required. If contaminant control is required, then a corrective action plan will be developed and implemented. If contaminant control is not required, then a monitoring corrective action plan will be developed and a five-year proof of concept monitoring program will be initiated. The fifth and final major decision occurs after a review of the monitoring results. If DOE and NDEP are confident of the results, the closure process will begin. If the results at any of these decision points are not acceptable, then contingency activities will be initiated and evaluated, as appropriate, to correct the deficiencies.

For saturated conditions, a flow model of each CAU will be constructed to provide local three-dimensional flow, to evaluate the range of flow conditions in the CAU that may be important in determining maximum extent of transport, and to provide boundary conditions for modeling transport. Saturated conditions are planned to be modeled for Frenchman Flat, Yucca Flat/Climax Mine, Western Pahute Mesa, and Central Pahute Mesa CAUs.



**Figure 3-2**  
**Process Flow Diagram for the Underground Test Area**  
**Corrective Action Units**

For CAUs where unsaturated groundwater conditions prevail (Rainier Mesa/Shoshone Mountain CAU), saturated zone flow and transport modeling results, based on field data, will be evaluated to determine if the saturated zone has been impacted. If the saturated zone has been impacted, then the need for further examination of the unsaturated zone will be evaluated.

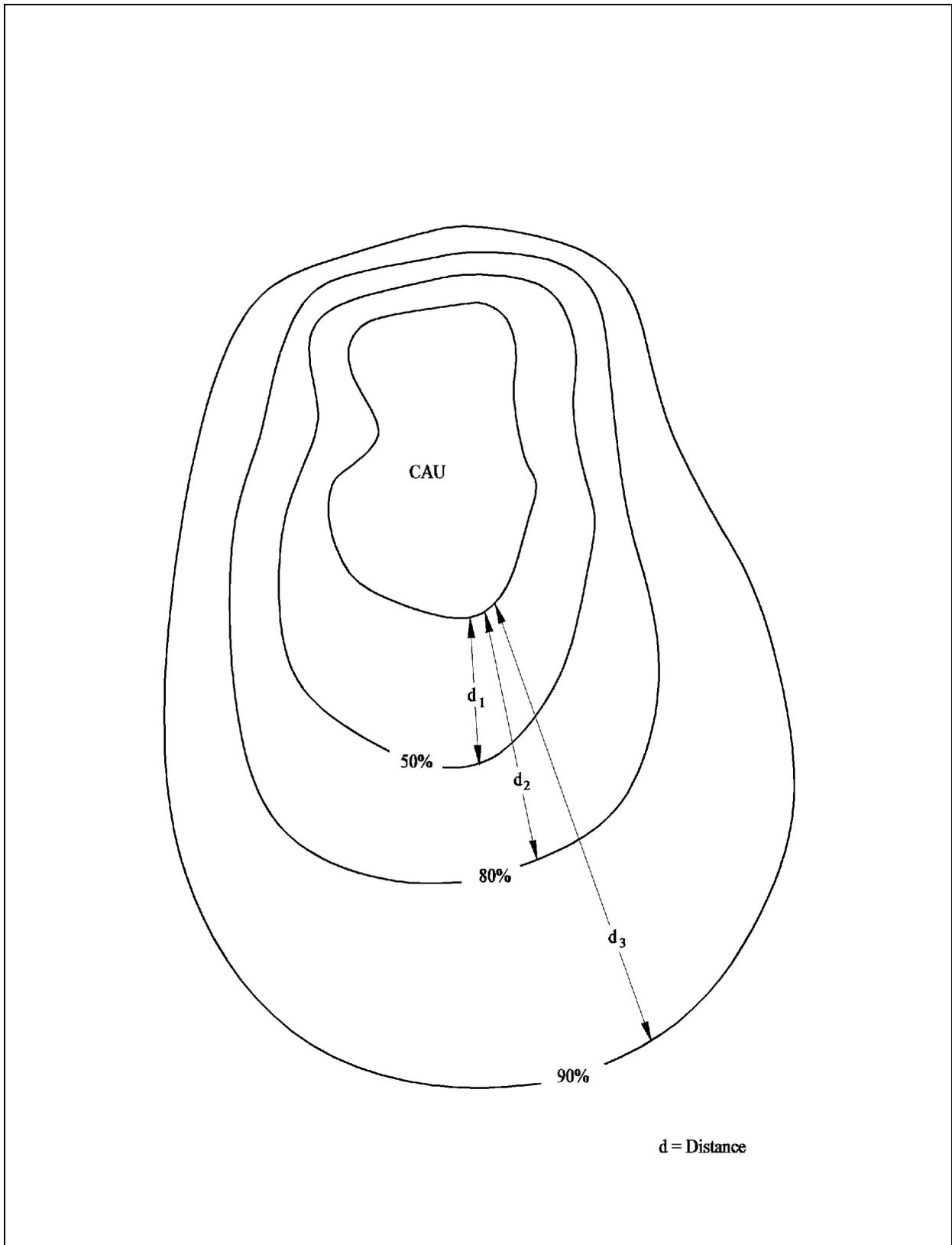
CAU models utilizing tritium as the source term will be used to establish the contaminant boundary for each CAU. The boundary will be composed of a perimeter boundary and a lower hydrostratigraphic unit boundary. The perimeter boundary will define the aggregate maximum extent of contamination transport at or above the concentration of concern for the CAU. The lower hydrostratigraphic unit boundary will define the lowest aquifer unit affected by the contamination. Long-lived radionuclides, besides tritium, will be included to evaluate the relative extent of migration of different radionuclides in the future. If it is predicted that another radionuclide will migrate farther than tritium at concentrations of concern, the contaminant boundary will include that prediction.

Figure 3-3 illustrates how modeling uncertainty can be expressed as confidence levels. Each contour reflects an increased level of confidence that no contaminants exceeding a given regulatory concentration will ever cross that boundary. As confidence increases, the distance from the CAU increases. The confidence levels could lead to the development of different contaminant boundaries, depending on the degree of certainty decision makers need to select appropriate controls.

Monitoring compliance with the CAU boundaries will be accomplished through measurement of appropriate physical and chemical parameters in wells within the modeled region. Appropriate physical and chemical parameters remaining within the range of measurements used in the flow model will be an indication that the conditions have not significantly changed. Sensitivity analysis of parameters relevant to the groundwater will indicate the extent that appropriate physical and chemical parameters can vary before the acceptable confidence limit for the model is exceeded.

### **3.3 Implementing Corrective Action Investigations and Corrective Actions**

Work elements expected to be required to conduct the CAI and corrective action process for each of the UGTA CAUs are identified in the Process Flow Diagram for the Underground Test Area Corrective Action Units (see Figure 3-2), and are described below. These descriptions form the basis for establishing due dates for milestones and deadlines for these CAUs. If activities other than those described herein are determined to be necessary to achieve closure of the CAUs, the milestones and schedule will be reevaluated in accordance with the terms and conditions defined



**Figure 3-3**  
**Example of Contaminant Boundary Confidence Levels**

in the Agreement. As of the effective date of this Agreement, no specific, proven cost-effective technologies, as known by the parties individually, have been previously demonstrated to either remove radioactive contaminants from the groundwater, stabilize them, or remove the source of the contaminants at the CASs that are subject to that Agreement. Such technologies may be perfected in the future, which may perhaps alter the choice of corrective action at that time.

The following dictionary sets forth the meaning of each block/step of the Process Flow Diagram for Underground Test Area Corrective Action Units (see [Figure 3-2](#)) for achieving the UGTA Corrective Action Strategy. The dictionary is presented in tabular form identifying each of the steps developed to achieve the Strategy. The table presents the process section that each block/step is in, the descriptor, or name, of each block/step, and a definition of the block/step.

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CAIP</b>	<b>CAIP</b>	<p>DOE will develop and prepare the Corrective Action Investigation Plan (CAIP). The CAIP will be prepared in accordance with the FFACO and Data Quality Objective (DQO) Process. The CAIP will meet the informational requirements of the “Annotated Outline for UGTA Corrective Action Investigation Plan,” which includes a description of the CAU, a summary of the DQO process results, the proposed Corrective Action Investigation (CAI), and a description of and rationale for any planned field investigations.</p> <p>The description of the CAU will include the investigative background which contains a summary of historical data and previous studies, operational history, physical setting, contaminants of concern, and a conceptual model of the CAU that will be proved or disproved by the CAI. The DQO process results provide problem identification, relate the conceptual model with contaminant migration scenarios, and the investigations aimed at satisfying the DQOs. The proposed CAI provides the plans for the conduct of the investigation that will be carried out, and the details of field investigations and data collection and data analysis activities identified as necessary to better model the physical system. The CAU-scale flow and contaminant transport modeling will also be planned and developed in the CAI, including the modeling steps, flow and transport code selection, and flow model calibration and verification.</p> <p>During the development of the CAIP, DOE will meet with and update NDEP. NDEP will then be given the opportunity to review the draft version of the CAIP and identify any deficiencies. Field investigations, data collections, and analyses identified during the development of the CAIP as part of the Corrective Action Investigation will not be initiated without NDEP approval.</p>
	<b>NDEP Data Requirements &amp; Basis</b>	<p>During the development and preparation of the CAIP, NDEP will identify the specific data requirements and the basis for those data requirements which will be required for NDEP acceptance of the CAIP. These data requirements will be presented to DOE during the development of the CAIP.</p>
	<b>NDEP CAIP Review</b>	<p>NDEP reviews the draft version, along with the CAIP, and prepares comments if appropriate. Review criteria are based on the informational requirements specified in the “Annotated Outline for UGTA Corrective Action Investigation Plan”. NDEP approval is required prior to initiating any Corrective Action Investigation-related activities.</p>

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CAI</b>	<b>Collect New Data</b>	DOE will collect new data to address deficiencies in existing data, or to improve the assimilation and utilization of existing data. The data collection activities undertaken will be those specific tasks detailed in the CAIP or an addendum to the CAIP.
	<b>Evaluate Existing/New Data</b>	DOE will evaluate new and existing data to determine if this current data set will allow for the development of an acceptable flow and contaminant transport model, and provide the data evaluation results to NDEP.
	<b>NDEP Data Review/Input</b>	NDEP reviews interim/final work products, supplemental materials, and attends presentations on the status of the investigation. NDEP then provides comments to DOE specifically aimed at data adequacy issues and the data evaluation process. NDEP input can take the form of identifying to DOE additional data collection activities that NDEP believes will be necessary to create an acceptable flow and contaminant transport model. After DOE completes its evaluation of existing and new data, and after NDEP has reviewed the information that was provided by DOE, NDEP will develop its determination concerning data adequacy.
	<b>Are Data Adequate?</b>	If both DOE and NDEP agree that the data are adequate, the answer to this question is yes. If either party determines that the data are not adequate, the answer is no.
	<b>NDEP/DOE Evaluate Alternatives</b>	If both parties cannot agree that data are adequate to develop a flow and contaminant transport model to meet the conditions of the strategy, or that the flow and contaminant transport model has not produced acceptable results, then NDEP and DOE will conduct an evaluation of the alternatives.
	<b>Is The Strategy Achievable?</b>	After NDEP and DOE have completed the evaluation of alternatives, the question "Is the Strategy Achievable?" can be answered.
	<b>Develop CAIP Addendum</b>	If it is determined that the strategy is achievable, then DOE will develop and prepare an addendum to the CAIP. The CAIP addendum will address the identified needs, how these needs are translated to requirements, and what additional work activities will be conducted that are expected to address and/or satisfy these requirements. The CAIP Addendum will be structured as mutually agreed to by DOE & NDEP prior to document preparation. During the development and preparation of the CAIP addendum, DOE will keep NDEP informed and updated in order to expedite NDEP's review and approval.
	<b>NDEP CAIP Addendum Approval</b>	NDEP reviews the draft version along with the CAIP addendum, and provides comments if appropriate. NDEP approval of the CAIP Addendum is required prior to initiating Corrective Action Investigation-related activities.

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CAI</b>	<b>Develop CAU Flow &amp; Transport Model</b>	DOE will develop a flow and contaminant transport model for each CAU. The CAU-scale flow and contaminant transport model is a three-dimensional, mathematical representation of the important physical and chemical features of the flow system, and simulates the movement of a variety of radiological contaminants through the water-bearing units. First, a geologic model is constructed from surface and subsurface geologic and geophysical data. This geologic model is then used in conjunction with boundary fluxes, recharge & discharge data, hydraulic head data, and hydraulic conductivity data to develop a flow model. After completion of the flow model, the contaminant transport model is developed. The contaminant transport model will estimate the extent to which the migration of radionuclides exceeds the SDWA standards above background within 1,000 years, which will comprise the contaminant boundary. The contaminant boundary will be composed of a perimeter boundary and a lower hydrostratigraphic unit boundary. As part of the contaminant transport modeling process, sensitivity and uncertainty analyses will be performed which will include estimating the impacts of alternative models on flow and contaminant transport.
	<b>NDEP Model Review &amp; Input</b>	<p>The flow and contaminant transport model will be reviewed by DOE and presented to NDEP for review and evaluation. Both DOE and NDEP will evaluate the flow and contaminant transport model to determine if it is acceptable for defining the contaminant boundary. Acceptance will only be granted for a fully calibrated and verified model.</p> <p>Calibration and verification are steps in the model validation process. Calibration refers to the process of refining the model representation of the hydrogeologic framework, hydraulic properties, and boundary conditions to achieve a desired degree of correspondence between the model simulation and observations of the ground-water flow system. Verification is using the set of parameter values and boundary conditions from a calibrated model to approximate acceptably a second set of data measured under similar hydrologic conditions.</p>
	<b>Is the CAU Model Acceptable?</b>	If both DOE and NDEP determine that the model is acceptable, the answer to this question is yes. If either party determines that the model is not acceptable, the answer is no.
	<b>Define/Negotiate CAU Boundaries with NDEP</b>	A CAU flow and contaminant transport model utilizing Tritium and radionuclides with half-lives greater than Tritium (12.32 years) as the source term will be used to estimate a contaminant boundary for each CAU. The boundary will be composed of a perimeter boundary and a lower hydrostratigraphic unit boundary. The accepted contaminant boundary and other considerations will form the basis for a negotiated compliance boundary.

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CADD</b>	<b>Prepare CADD</b>	The Corrective Action Decision Document (CADD) will present the results of the CAI along with an evaluation of the remedial alternatives being considered, and also provides the basis for recommending the proposed remedial alternative. The results of this evaluation will be presented with the CADD. The initial assumption is that long-term monitoring will be the accepted remedial action. The structure of the CADD is based on requirements specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation.
	<b>NDEP CADD Review</b>	NDEP reviews the preliminary draft along with the Corrective Action Decision Document and prepares comments, if appropriate. Review criteria are based on guidelines specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation. NDEP approval of the CADD is required prior to initiating any Corrective Action Plan-related activities.
<b>CAP</b>	<b>Is Contaminant Control Required?</b>	During the development of the CADD, a determination is made either that contaminant control will be required, or long-term monitoring will provide sufficient CAU surveillance. One of two separate courses of action will follow this juncture, as indicated on the process flow diagram.
	<b>Develop Contaminant Control CAP</b>	DOE prepares the Contaminant Control Corrective Action Plan, which specifies the corrective measures required to achieve contaminant control. The structure of the plan is based on requirements specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation. The tasks to be implemented for contaminant control, and the engineering design and specifications for each corrective measure, are the focus of the document.

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CAP</b>	<b>NDEP Contaminant Control CAP Review</b>	NDEP reviews the preliminary draft along with the Contaminant Control Corrective Action Plan and prepares comments, if appropriate. Review criteria are based on guidelines specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation. NDEP approval of the Contaminant Control CAP is required prior to initiating any elements of the CAP implementation or related activities.
	<b>Implement CAP</b>	Elements of the Contaminant Control Corrective Action Plan are carried out by DOE. This involves the implementation of each corrective measure task specified in the CAP. DOE develops the schedule and keeps NDEP informed of progress as the work continues. NDEP may inspect or review completed elements of the work at intervals deemed appropriate throughout the implementation of the CAP.
	<b>Develop Monitoring CAP</b>	DOE prepares the Monitoring Corrective Action Plan which specifies the monitoring required. The structure of the plan is based on requirements specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation. The plan outlines the monitoring strategy and its basis, the engineering design and specifications for the monitoring well network, the post-closure plan, and a 5-year proof of concept phase. Additionally, the planned monitoring and reporting procedures are specified including: sampling frequency; analytes to be sampled for; the data reporting, data validation, and analysis of results to be periodically performed.
	<b>NDEP Monitoring CAP Review</b>	NDEP reviews the preliminary draft along with the Monitoring Corrective Action Plan and prepares comments, if appropriate. Review criteria are based on guidelines specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation. NDEP approval of the Monitoring CAP is required prior to initiating any elements of the Monitoring CAP implementation or related activities.

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CAP</b>	<b>5-Year Proof of Concept Monitoring</b>	<p>A 5-year proof of concept monitoring network will be developed in accordance with the CAP. This phase of monitoring will use groundwater wells in a monitoring network to determine if the monitoring network design will provide adequate CAU surveillance. Measurements of field parameters will be used to demonstrate that the model is capable of making reasonable predictions that fall within an acceptable level of confidence.</p> <p>Model validation, to ensure fidelity of the model to the physical system, will utilize a ten-step protocol to demonstrate that a model has been developed which meets user needs. These ten steps are: 1) Establishment of model purpose, 2) Development of conceptual model, 3) Selection of a computer code and verification of code, 4) Model design, 5) Model calibration, 6) Sensitivity and uncertainty analyses, 7) Model verification, 8) Predictive simulations, 9) Presentation of model results, and 10) Postaudit.</p> <p>The validation postaudit step tests whether the model can predict future system behavior. The five-year proof of concept is the model postaudit to establish, within a longer time frame, that the model is capable of producing meaningful results with an acceptable degree of uncertainty. Model validation is substantiated once all ten steps are shown to have been acceptably completed.</p>
	<b>Are Monitoring Results Acceptable to NDEP?</b>	NDEP reviews the results of the 5-year proof of concept monitoring and determines if they are acceptable.

**Process Flow Diagram Dictionary for the Underground Test Area Corrective Action Units**

<b>PROCESS SECTION</b>	<b>BLOCK DESCRIPTOR</b>	<b>DEFINITION OF THE PROCESS STEP</b>
<b>CR</b>	<b>Develop Closure Report</b>	If the results of the pre-closure monitoring fall within limits previously defined in the Monitoring CAP, a Closure Report will be prepared to propose that the CAU be designated a closed site. The closure report will describe the results of closure, establish long-term monitoring requirements for the CAU, develop technical and administrative contingency plans for actions to be taken if long-term monitoring results are not acceptable, and define future land-use restrictions. The structure of the report is based on requirements specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation.
	<b>NDEP Closure Report Review</b>	NDEP reviews the preliminary draft along with the Closure Report and prepares comments, if appropriate. Review criteria are based on guidelines specified in the most recent document outline agreed to by DOE and NDEP prior to document preparation. NDEP approval of the Closure Report is required prior to initiating any Long-Term Closure Monitoring-related activities.
	<b>Long-Term Closure Monitoring</b>	DOE performs long-term monitoring in accordance with the specific monitoring requirements stated in the Closure Report. NDEP reviews periodic monitoring results and ensures that the monitoring provisions in the Closure Report are followed.
	<b>Propose New Strategy</b>	If the current strategy is found not to be achievable, a new strategy will be proposed by DOE.
	<b>Negotiate With NDEP</b>	Following the proposal of a new strategy, NDEP will review the new strategy. NDEP and DOE will negotiate the overall approach and general conditions of the strategy.
	<b>Develop New Strategy</b>	Once a consensus regarding the general conditions of the strategy has been reached between DOE and NDEP, DOE will fully develop the details of the new strategy.
	<b>Execute New Strategy</b>	DOE and NDEP implement their respective tasks, as outlined in the new strategy.

## **4.0 Soil Sites**

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Soil Site CAUs consist of surface and shallow subsurface soil contamination resulting from various types of nuclear experiments or testing. If a CAS contains significant quantities of contaminated debris in addition to soil, it will be investigated and remediated as an Industrial Site.

### **4.1 Corrective Action Units**

The following CAUs have been identified as Soil Sites:

- Ninety-four of the atmospheric tests conducted at the NTS including airburst, air drop, balloon, rocket, surface and tower types, are currently grouped into four Atmospheric Test CAUs based on geographic location. Resolution of scientific and engineering corrective action issues for the Atmospheric Test CAUs will provide a technical basis to subdivide the CAU.
- Safety experiments that produced no nuclear explosions but created surface contamination were conducted at five locations on the NAFR and TTR; at Plutonium Valley in NTS Area 11; and GMX in NTS Area 5. Contamination from these CAUs is limited to surface soils. The depth of contamination may vary among CASs, but it is not expected to exceed 1 foot at any site. The CAUs are:
  - Double Tracks CAU
  - Clean Slate 1 CAU
  - Clean Slate 2 CAU
  - Clean Slate 3 CAU
  - Area 13 CAU
  - Plutonium Valley CAU
  - GMX CAU.
- Six CAUs resulting from cratering events from underground tests are included in the Soil Sites. The cratering tests consisted of using nuclear devices to excavate large volumes of earth. Contamination from these tests includes subsurface impacts (less than 300 m [984 ft] deep) and impacts to surface soils caused by material expelled during testing. The CAUs are:
  - Sedan CAU
  - Schooner CAU
  - Buggy CAU
  - Cabriolet CAU
  - Johnnie Boy CAU
  - Danny Boy CAU

- The Hydronuclear Test CAU consists of a classified number of CASs. Most of these CASs have impacted shallow subsurface soils of depths less than 30 meters [98 ft]. No surface soil impacts are expected.
- The Nuclear Rocket Engine CAU consists of a number of CASs within the same geographic area in Area 25. The surface soils were contaminated when radionuclides were released during engine tests. Building contamination associated with the assembly and disassembly of the rocket motors is addressed by the Industrial Sites, and jointly established priorities may be appropriate.

Figure 4-1 is a map of currently identified Soil Site CAUs.

#### **4.2 Corrective Action Strategy**

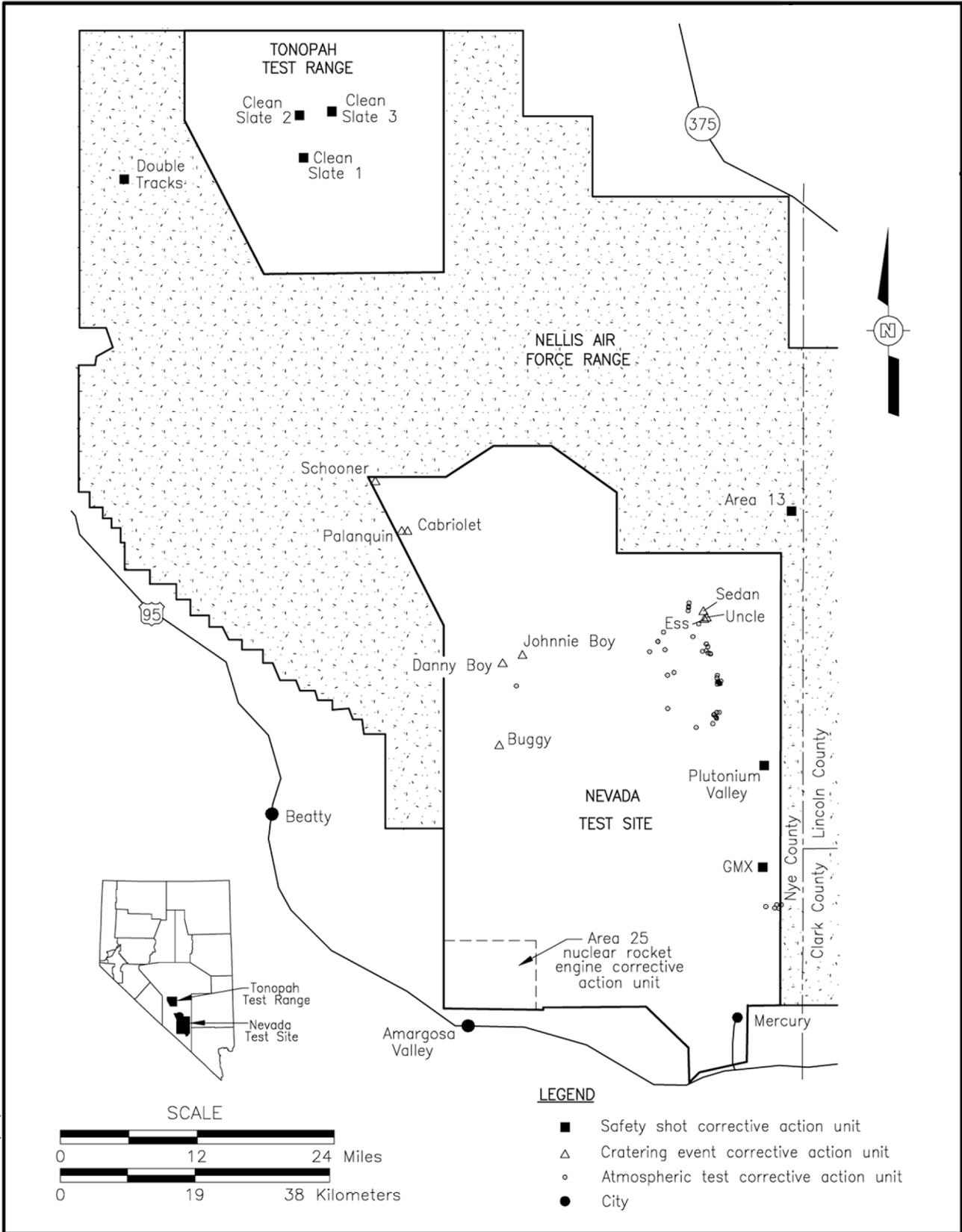
The corrective action strategy for Soil Sites will be based on either the SAFER or complex corrective action process. The decision regarding which process is most appropriate depends on CAU DQOs and the amount of existing knowledge and data. If the existing knowledge is sufficient to allow the selection of a corrective action alternative before completing a CAI, then the SAFER process will be employed. If there is not enough knowledge to propose a corrective action, then the complex process will be used.

Corrective actions will be performed at surface and subsurface Soil Sites. Surface soil remedies will include removal of hot-spot materials located in small selected areas following in situ identification. Larger areas will require the use of mechanical excavation devices to remove contaminated materials, such as size separators or other physical processes to reduce waste volumes. Subsurface remedies will range from clean closure to closure in place.

Corrective action alternatives will be based on applicable regulatory standards or proposed cleanup levels, if no standards apply. Proposed levels will be based on pertinent factors including but not limited to assessment of risk, current and projected land use, resource management, and technical feasibility.

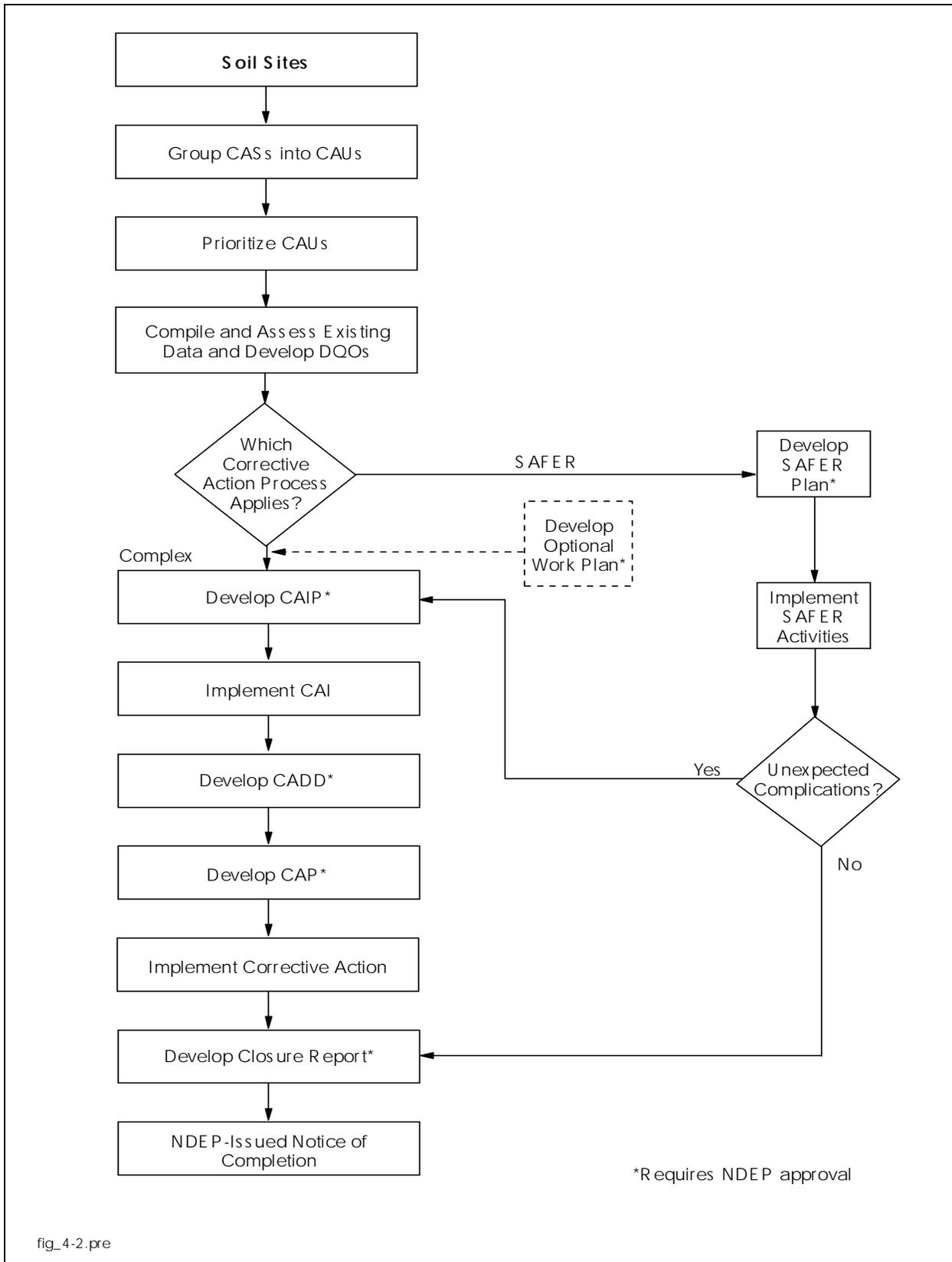
#### **4.3 Implementing Corrective Action Investigations and Corrective Actions**

Figure 4-2 presents the corrective action approach for Soil Site CAUs. CASs will be grouped into manageable CAUs, prioritized for corrective action, and a preliminary characterization performed based on existing data. These data will be used to guide appropriate investigation and corrective action tasks, as well as to select a corrective action process. DQOs will be established by the parties with NDEP participation to assist in the development of work scope. Stakeholder input may be required depending on the nature of the work scope.



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**Figure 4-1**  
**Soil Sites Corrective Action Units**



**Figure 4-2**  
**Soil Sites Corrective Action Process**

Either the SAFER or complex corrective action process will be selected for Soil Site CAUs, based on site conditions. The following sections describe the work flow process and decision points necessary to implement corrective actions for Soil Sites.

#### **4.3.1 SAFER Process**

Many of the Soil Site CAUs have a sufficient amount of historical data and contamination characterization available to provide adequate information to propose a corrective action alternative without completing a CAI. At these CAUs, the SAFER process may be employed. Investigation will be necessary at these CAUs to document and verify the adequacy of existing information, to affirm the selected corrective action, and to provide sufficient data to implement the corrective action. Corrective action activities may progress during the CAI.

If regulatory standards do not exist for the identified contaminants, it may be necessary to evaluate appropriate factors, including risk, to develop proposed cleanup levels. The pertinent factors and subsequent evaluation will be formulated in cooperation with NDEP prior to the completion of the SAFER Plan.

A SAFER Plan will be developed, incorporating the essential elements of a CAIP, CADD, and CAP and will be used to guide both CAU actions and decisions. The document will include contingency plans if site conditions are other than expected. If specific conditions or findings fall outside the bounds of the SAFER Plan, the CAS will be transferred to another CAU and the complex process used. Following completion of SAFER process activities, a closure report will be prepared and submitted to NDEP.

#### **4.3.2 Complex Process**

If existing CAU knowledge is inadequate to propose a corrective action alternative, the complex process will be used. A CAIP will be prepared to guide investigative tasks to acquire necessary data to complete a CADD. DQOs will be incorporated into the CAIP to ensure that collected data will be used in evaluating corrective action alternatives.

Corrective action alternatives will be evaluated in a CADD, and a corrective action proposed. The development of the CAP and the implementation of the corrective action will begin after NDEP approval of the CADD. A closure report will document the completion of corrective action activities and submitted to NDEP. After approval of the completion of the corrective action, NDEP will issue a notice of completion and the CAU will be moved to Appendix IV (Closed Corrective Action Units).

## **5.0 Off-Sites**

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Off-Sites within the state of Nevada consist of the Project Shoal Area and the Central Nevada Test Area, each considered a separate CAU based on geographic location.

### **5.1 Corrective Action Units**

CASs associated with Project Shoal Area and the Central Nevada Test Area include an underground nuclear test event and sites associated with drilling activities.

### **5.2 Corrective Action Strategy**

Corrective action strategies for surface and shallow subsurface sites at the Project Shoal Area and Central Nevada Test Area CAUs are identical to the Industrial Sites corrective action process, as shown in [Figure 2-1](#). Efforts to compile existing data at these CAUs are under way, and these data will be used to develop conceptual models and provide the basis to apply DQOs for data collection and evaluation. The selection of a corrective action process will be based on site-specific information and conditions.

The concepts being developed for the UGTA CAUs will be applied on a more limited scale to groundwater at the Off-Sites. Each was the site of one underground nuclear test. The strategy will be to characterize groundwater flow and contamination transport through modeling utilizing CAU-specific hydrologic data. The focus will be on tritium, because, based on presently available data, it is the most mobile of the potential radiological contaminants. Maximum use will be made of existing data, including monitoring data collected from the Long-Term Hydrologic Monitoring Program (LTHMP) well networks at each area. If the results of the hydrologic studies so indicate, then a decision will be made to evaluate the need for source control or containment and implement as appropriate, or continue the monitoring program. If the modeling results are acceptable, then the monitoring program will be continued. LTHMP sampling has been performed annually at the Project Shoal Area and the Central Nevada Test Area since 1972.

### **5.3 Implementing Corrective Action Investigations and Corrective Actions**

Surface and shallow subsurface CASs will follow the corrective action processes described in [Section 2.3](#).

If the areas of potential groundwater contamination are not adequately bounded by the present LTHMP networks, or if there are potential exposure pathways not presently monitored, additional sampling points could be added to the LTHMP networks. As of the effective date of this Agreement, no specific, proven cost-effective technologies, as known by the parties individually, have been previously demonstrated to either remove radioactive contaminants from the groundwater, stabilize them, or remove the source of the contaminants. Such technologies may be perfected in the future, which may perhaps alter the choice of corrective actions at that time. In addition it may be necessary to institute use restrictions on groundwater in a buffer zone surrounding the CAS to further protect against potential human exposure. The closure report will also establish long-term monitoring requirements for the CAU, including contingency plans for actions to be taken if long-term monitoring results are not acceptable.

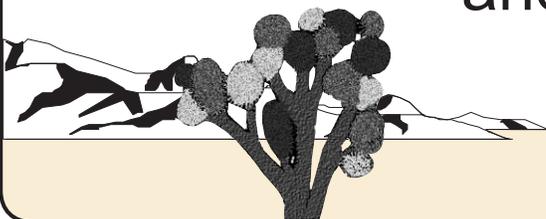
# Index of Corrective Action Units

Revision No.: 22



July 2007

Federal Facility Agreement  
and Consent Order  
(FFACO)



# FFACO

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