

Note: Changes since the March 14, 2003 version are shown in red with gray shading. Areas released by both NRC and State are shown with green background. Areas released by NRC but not State are shown with purple background. Areas w/ submitted release requests are shown in yellow.

| TABLE S-1: General Atomics' Facilities and Sites to Be Decommissioned (Status as of June 14, 2004) | | | | | | | | |
|--|---|--|---------------------------------|---|---------------------------------------|-------------------------------------|---|--|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 1 | Admin .Bldg. | Offices | none | RELEASED by NRC and State | | None | | |
| 2 ⁽²⁾ | Science Laboratory Building (a.k.a. "L" or Laboratories Bldg.) Except Labs 517, 530/532 523, 534, 560/562/564 & 407 | R&D, Testing, Experimental | Byproduct | RELEASED by NRC and State | NRC & State | None expected | Lab Specific | Lab Specific |
| | Labs 517, 530/532 & 523, 534, 560/562/564 & 407 | Diazyme Labs except Lab 407 (tritium diffusion lab) | Byproduct | State licensed materials in use in Labs 517 and 530/532(Amend. 142); and Labs 523, 534, 560/ 562/564(Amend. 147); and Lab 407(Amend. 155 dated 5/6/04) | State | Only minor clean-up expected. | Lab Specific | Lab Specific |
| Bldg 2 Service Core and roof | Service Core | Services provided to labs plus drain lines and ducts to/from some of the labs. | All | Final surveys in progress | NRC | | | Affected Area Survey for Selected Areas |
| | Drain line trenches (Drain lines removed) | | | RELEASED by NRC Amend. 72 11/16/01 Drain lines removed and replaced. Old lines disposed of as LLW. Awaiting State Release of Drain Line Trench (Release request 4/01) | State to release after NRC release | No significant areas found. | Extensive D&D to remove drain lines | Rest of core Unaffected Area |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | Ducts | | | All known radioactively contaminated ducts in the core were removed in 1994. All other ducts were surveyed in the areas with highest potential for contamination and none was found. | | No | | |
| | roof | | N/A | RELEASED by NRC amend 80 1/30/04 Awaiting State Release Release Requested 696/CAL-3665 10/31/03 | NRC; State to release after NRC | N/A | Minor to Moderate Additional sections of roof replaced after criteria met (roof cleaned to background levels). Above background material sent to an approved Low Level Waste Disposal Facility. Supplemental report to be submitted to State. | level and location dependent |
| 7 | Cafeteria | Dining, offices, meeting rooms | None | RELEASED by NRC and State | | | | |
| 9 (except Rm 049) | experimental and office areas | | | RELEASED by NRC and State in several "stages" | | | | |
| Room 049 of Bldg 9 | Experimental Building | TRIGA Fuel Fabrication prior to 1976 | SNM | RELEASED by NRC on 6/7/99 and by State on 9/10/99 | | None expected | Moderate D&D Approach B | Affected Area Survey |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 10 (except Rooms 702 and 702A) | Health Physics Building | Offices plus Calibration of rad detection equipment was performed in Room 700 | None, except sealed sources were used in Room 700 | In use. Health Physics Offices Release requested as part of Torrey Pines South 6/28/01 | State deleted from NRC license | No | No D&D needed. | Unaffected Area Survey |
| Rooms 702 and 702A of Bldg 10 | HP Lab | Analyses of HP samples | Byproduct, sealed sources | In use. Health Physics Laboratory (since ~12/96) | State | No | Remove sources and equipment including hood and ducts Approach B | Affected Area Survey |
| 13 | Office Bldgs. | Offices | None | RELEASED by NRC and State | | None | | |
| 14 | Office Bldgs. | Offices | None | RELEASED by NRC and State | | None | | |
| 15 | Office Bldgs. | Offices | None | RELEASED by NRC and State | | None | | |
| 19 | Swimming Pool | Swimming | None | RELEASED by NRC and State | | None | | |
| 21-R | <u>R</u> eactors, TRIGA [®] | TRIGA [®] Mark I and Mark F Non- power Reactors | All | Operations ceased. Mark I and F reactors de-fueled. Mark I reactor components removed. Decommissioning in progress. | NRC Non-power reactors D Plan <u>State to indicate no jurisdiction</u> (5) | Yes | Major D&D Approach C and Soil Cleanup | Affected Area Survey Soil Criteria |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 21-L | <u>L</u> abs, offices former MK III room | labs, offices, and pit of former Mark III reactor | All | Decommissioning underway. Nearly complete. | NRC (NMSS) <u>State to indicate no jurisdiction</u> , or release after NRC (5) | To be Determined | Moderate D&D Approach B | Affected Area Survey |
| 21-A | TRIGA Reactor <u>A</u> dmn. Area | offices and rest rooms. | None | RELEASED by State on 5/7/99 and by NRC on 5/14/99 | | No | N/A Complete | N/A Complete |
| 21 Room 104 (not 102 as previous table S-1 noted) | Room 104 of Building 21 | Tritium Diffusion Lab (added after 5/14/02 meeting) | Tritium Only | In Use Under State License To be transferred to Lab 407 in 2004 per Amend 155 dated 5/6/04 | State (unless State agrees to transfer this room to NRC also) | No | Minimal D&D | To be Determined |
| 22 | TRIGA Fuel Fabrication Facility | TRIGA Fuel Manufacturing | Predominantly SNM Some Depleted uranium | RELEASED by NRC on 5/14/99 and by State on 9/10/99 | | Yes | Major D&D Approach C and Soil Cleanup | Affected Area Survey Soil Criteria |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 23 | Hot Cell Bldg. 23 is Included in Hot Cell Site Land Area release request | R&D and PIE | All | RELEASED by NRC Amend 66 7/3/00 and State Amend 143 8/31/00 | | Yes | D&D conducted In accordance with NRC and State of CA approved D&D Plan NRC Survey - NRC report (70-734/00-01) documents confirmatory survey on March 14-15, 2000 and concludes Hot Cell Site meets the criteria for released to unrestricted use. ORISE Survey - draft report summarizes results of surveys of November 1, 1999 and March 21-22, 2000 and the "results of the verification surveys confirmed the results by GA." | |
| 25 In "Former Building 25 Site which includes location of former Bldg 25 and surrounding land area. | Liquid Waste Treatment Facility Part of GA's Nuclear Waste Processing Facility | Treat liquid LLW for Discharge to sewer | All | D&D began 1/03 Entire building packaged sent to rad waste at an approved Low Level Waste Disposal Facility. Release request submitted 7/10/03 to NRC & State CAL/696-3622 State in-process survey completed 4/10/03 NRC confirmatory by NRC Region IV March 29-30, 2004 | StateDHS RHB; State DTSC; Request to transfer from State to NRC submitted by GA on 3/11/04 (696/CAL-3709) ⁽⁷⁾ | Probable TBD | Moderate D&D expected and possible Approach C No soil remediation was required during the final survey. | Affected Area Survey and Soil Criteria |
| 27 | EA Experimental Area | Radiochemistry and Chemistry Labs | All | RELEASED by State on 5/7/99 and by NRC on 5/14/99 | | Possibly | Moderate D&D expected and possible Soil Remediation Approach B | Affected Area Survey (possibly Soil Criteria) |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 27-1 Incorporated into "EA-1 Bunker Land Area" release request | EA-1 Bunker Facility including former vaulted tank area (tank removed and disposed of as rad waste). | R&D associated with radiochemistry | All | RELEASED by NRC (Amend #77) 7/11/03 Awaiting State Release Release Requested CAL/696-3451 4/5/02 NRC Confirmatory Survey performed 3/10/03-3/14/03 | Lead transferred from State to NRC 1/03 ⁽⁶⁾ State to release after NRC release | Yes | Moderate D&D expected and possible Soil Remediation Approach C | Affected Area Survey (possibly Soil Criteria) |
| 29 & 29-2 | Office Bldgs. | Offices, garage & storage | None | RELEASED by NRC and State | | | | |
| Bldg. 30 Room 104A | Lab | Lab | Sealed Ni-65 Source | In Use. Added Amend 151 3/27/03 | State | No | Remove Source Only | Unaffected Area Survey |
| Bldg. 30: Room 118 | Linac Facility | Not currently in use; Previously Irradiated Fuel Storage in Casks (do not delete this note) | All | Release requested as part of Phase IV CAL/696-3404 9/6/01 | State NRC to release after State release | No | Confirmatory Survey Needed Approach A | Unaffected Area Survey if no contamination is found. |
| Bldg. 30: Room 121 | Attachment to Linac Bldg | HVAC Contractor | None | Release requested as part of LINAC Land CAL/696-3395 8/2/01 | State; NRC to release after State release | No | N/A | Unaffected Area Survey |
| Bldg. 30 Room 100 | Linac Facility | Offices & Storage | None | Release requested as part of Building 30/31 Phase IV CAL/696-3404 9/6/01 | NRC; State to release after NRC | No | Approach A | Unaffected Area Survey |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| Bldg. 30 (except rooms 100, 118 and 121) | Linac Building | Linear accelerator, Room 123 housed subcritical and critical assemblies til circa 1970 | Activation Products | Phases I, II and III RELEASED by NRC and State. Last Phase for Bldg. 30 is Phase V release requested by CAL/696-3342, 3/22/01 | State and NRC (room dependent) | No | Approach A | Affected Area Survey |
| Bldg. 31; Room 103A | Vault like storage | Irradiated Fuel Storage in Casks | Primarily enriched U and Th; FP contained in irradiated fuel | RELEASED by NRC Amend 77 7/11/03 Awaiting State Release | NRC, State to release after NRC release | No | No decon required. Release requested by 696/CAL-3552 12/18/02 NRC confirmatory survey performed 3/10/03-3/14/03 | Affected Area Survey |
| Bldg. 31; Room 101 | Cal Lab | Nuclear instrument calibrations | Cs-137 Sealed Source, cal standards | In use for nuclear instrument calibration | State | No | Remove all sources Approach A | |
| Bldg. 31; Room 102 | Was going to be Tritium permeability QC test | Tritium permeability test eventually set up in 21-104 & will be moved to 2/407 | No tritium ended up being used here | Release re-requested as part of Phase IV CAL-3473 6/3/02 | State | No | No clean-up required. | |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| Bldg 31 except Rms 103A, 101 and 102 Now includes Room 102 | LINAC Complex Bldg 30/31 complex | Offices, labs, showers and restrooms; Rm 103 previously used for Sub- critical assembly, and vault-like storage | Primarily enriched U and Th; FP contained in irradiated fuel; and byproduct & activation products. | Release Requested as part of Bldg 30/31 Phase IV Bldg 31 (except Rm 103A 101, and 102) plus Rm 100 of Bldg 30 is Phase IV Now includes Room 102 | State NRC to release after State release | No | Limited D&D of facility expected. Approach A | Rm 103: Affected Area Survey; others: Non-suspect Affected Areas Surveys |
| 31-1 | Radiochem-istry labs / Radiography Bldg | Laboratories, offices, and storage | Primarily thorium and enriched uranium | RELEASED NRC Amend. 63 of 12/6/99 and State Amend. 141 of 1/21/00. Building dismantled (no longer there) | | No | Minor D&D Approach B | Affected Area Survey |
| 31-2 | Experimental Facility | Radiochem. operations | SNM & Byproduct | RELEASED NRC Lic. Amend. 18 3/31/92, and State Lic. Amend. 106 8/24/92 | | N/A Released by NRC and State | | |
| 31-3 Release Requested as part of "LINAC North Land Area" | Storage Building | Radioactive material storage and fuel element fab/assembly | Primarily thorium and enriched U and storage of byproduct mat'l | RELEASED by NRC 11/16/01 (Amend. 72) Awaiting State Release Building dismantled (no longer there) | NRC State to release after NRC release | Yes | Minor D&D Approach B Soi l contamination Building itself was disposed of as rad waste | Affected Area Survey |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 33 (Not included in TPS Land) | ICF Fusion | Radiation Machines and sealed tritium source | tritium | RELEASED by NRC in response to Torrey Pines South release request: Amend 65 12/28/99 In Use for State Licensed activities (only sealed sources and rad machines) | State | No | Remove sources. No D&D of facilities expected. Approach A | Unaffected Area Survey |
| 33-1 Release Requested as part of "TPS Land Area" | Former HP Lab | Samples containing small quantities of radioactive material had been used in past | All | RELEASED by NRC as part of TPS Land Amend. 65, 12/28/99 Awaiting State Release | State | No | No D&D of facility was needed (survey performed after move of HP Lab; no contamination detected). Approach A | Unaffected Area Survey if no contamination is found. |
| 33-5 Release requested as part of "TPS Land Area" | Carpenter's shop | Carpenter's shop | none | RELEASED by NRC Amend. 65, 12/28/99 Awaiting Release from State (as part of TPS land area;) | State | No | None required | Unaffected Area Survey |
| 34, 34-1, 34-2, 34-3, etc. | DIII-D | Fusion Research | Short-lived Activation Products and Tritium | In use. Deleted from NRC License | State | No | No D&D of facility expected. Remove sources and activated equipment. Approach A | Unaffected Area Survey Affected Area Survey in DIII-D pit |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 35 | Test Tower | Testing and maintenance of contaminated helium circulator | Mixed fission and activation products | RELEASED by NRC 6/22/99 and by State on 10/05/01 Release requested 9/30/98 and supplemental data submitted on 7/13/99. Additional data/ info requested on 4/01 | NRC letter 6/22/99 stated no NRC jurisdiction | No | Scoping Survey needed. No contamination expected. Approach A | Unaffected Area Survey if no contamination is found. |
| 35-1 | Facilities Building | Shipping and Receiving (S&R), Mail Room, offices | No known history of R/A mat'l use except packaged materials in S&R | RELEASED by NRC on 7/26/99 and by State on 9/10/99 | | No | N/A. DONE | DONE |
| 36 | Blower Assembly Building | Storage and R&D | No known history of R/A mat'l use | RELEASED by NRC on 7/26/99 and by State on 4/2/99 | | No | N/A. DONE | DONE |
| 37 ⁽¹⁾ (Formerly the South end of Bldg 37, previously known as Bldg 37S) | SVA-South (Bldg 37) and tunnels | <u>Previously used for temporary storage of packaged LLW from 37 North D&D and sealed sources</u> | All | RELEASED by NRC on 6/7/99 and by State on 9/10/99 | | No | Scoping survey completed. Approach A | Unaffected Area Survey completed. |
| 37N (formerly the north end of Bldg 37) | SVA-North (Bldg was Dismantled during D&D) | HTGR Fuel Fabrication and storage | HEU and Th | RELEASED by NRC and State in 1995 See "SVA Footprint" Land Area | | | | |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 39 (included in Sorrento Valley North land area) | SVB/Pilot Plant | Pilot Plant - Fuel Development R&D | SNM Depleted U Thorium | RELEASED by NRC on 12/22/00 and by State on 3/15/01 | | Yes | Major D&D Approach C (with Soil Remediation) | Affected Area Survey and Soil Criteria |
| 39-1 (included in Sorrento Valley North land area) | Storage Bldg | supply storage | none known | RELEASED by NRC on 12/22/00 and by State on 3/15/01 | | TBD | Scoping survey needed. Approach A | TBD |
| 41 (Located Within Sorrento Valley South Land Area) NWPF's Upper yard included in SVW Land Area | Nuclear Waste Processing Facility (NWPF) | Nuclear Waste (LLW) Processing | All | A portion of the building was used for storing, baling, compacting, solidification, & repackaging. D&D in progress. In 2004, all of the rooms of Building 41 associated with the NWPF were dismantled and shipped off site to an authorized Low Level Radioactive Waste disposal facility. | StateDHS RHB; State DTSC; NRC to release after State release Request to transfer from State to NRC submitted by GA on 3/11/04 (696/CAL-3709) ⁽⁷⁾ | Yes | Moderate to Major D&D expected and Soil Remediation Approach C | Affected Area Survey and Soil Criteria |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 41 North (remaining portion of Bldg 41) (Included in "Sorrento Valley South Land Area" | Classified Non-rad Project | Classified Non- rad Project | None | Non-rad Project 41 North has been surveyed, no contamination identified. NRC confirmatory survey completed by NRC Region IV March 29-30, 2004 Release Request will be submitted for this remaining portion of Building 41 in 2004 | None | No | NONE | N/A |
| 42 | Calibration Facility; previously Radiography Bldg. | Previously the Industrial Radiography bldg; now calibration facility. | Cs-137 Sealed Source, cal standards | RELEASED by State Amend # 149 10/05/01 Removed from NRC License on 10/4/99 | State. Removed from NRC License on 10/4/99 | No | Remove all sources Approach A | Affected Area Survey |
| 45 | Facility's Machine Shop | Non-rad | None used. One-time temp. storage of packaged fission chamber | RELEASED by NRC on 7/26/99 and by State on 4/2/99 | | No | Non-impacted | Unaffected area survey |
| 77 | Sorrento Electronics in Kearny Mesa 4949 Greencraig Lane (aka Bldg. 77) | Manufacture of radiation monitoring instrumentation | Byproduct | Bldg. 77: State License Amended to add this location (amend 146 7/6/01) | State | No | No D&D of facilities is expected Removal of Sources needed Approach A | Unaffected Area Survey, assuming no contamination is found. |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| 79 | Sorrento Electronics facilities in Mira Mesa (Bldg. 79) | Manufacture of radiation monitoring instrumentation | Byproduct | RELEASED by State by License Amendment #150 2/3/03 | State (No NRC licensed material used here) | No | No D&D of facilities is expected Removal of Sources needed Approach A | Unaffected Area Survey, assuming no contamination is found. |
| Underground Storage Tanks ⁽³⁾ | | | | | | | | |
| Building 2 Lab 307 | | Temporary storage of radioactively contaminated liquids | primarily Cs-137, Co-60 Sr-90 | Tanks and piping removed and soil remediated in 1984. Additional investigation completed in 2003; no soil contamination above approved soil release limits found. No remediation needed. GA needs to submit report documenting the investigation. | NRC State to release after NRC release | Soil was remediated in 1984. | D&D effort including soil remediation completed 11/94. See Report to NRC dated 11/30/94 (letter 696-6083). Formal Release Not Yet Requested. Additional investigation completed in 2003; no soil contamination above approved soil release limits found. No remediation needed. | |
| Bldg 2 Lab 540 (1000 gal) | | Temporary storage of radioactively contaminated liquids | Various | RELEASED by NRC on 8/12/99 and by State on 9/10/99 | | No | GA report dated 2/11/85 shows soil concentrations below the Option I release criteria. Soil Samples Obtained by the NRC during removal of the tanks. Formal release requested 5/17/99. | |

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| Bldg 9 (750 gal) Bldg 21 (1000 gal) Bldg 31 (1000 gal) | | Temporary storage of radioactively contaminated liquids. | Various | RELEASED by NRC on 8/12/99 and by State on 9/10/99 | | No | GA report dated 2/11/85 shows soil concentrations below the Option I release criteria. Soil Samples Obtained by the NRC during removal of the tanks. Formal release requested 5/17/99. | |
| Bldg 37 tanks | | Temporary storage of hand wash water | uranium & natural thorium | RELEASED ⁽¹⁾ by NRC & State as part of release of Bldg 37 North | | N/A | N/A | |
| LAND AREAS | | | | | | | | |
| Main Site Land Areas (~ 60 acres) | | | | | | | | |
| Torrey Pines South (TPS) See Fig. S-1 | | Health Physics lab, R&D | byproduct material, sealed sources | Health physics lab in use. Deleted from NRC license by Amend. 65, 12/28/99 Release by State requested with exception of few select rooms | State | None expected | TPS includes Bldgs. 10, 33, and 33-1, but with the exception of a few rooms. No contamination expected. | |
| Torrey Pines Central (Buildings 1, 7, 13, 14, 15, 19, 29, 29-2 and surrounding land areas) See Fig. S-1 | | Office Buildings, Parking Lots and Recreational Areas | None Never used for work involving radioactive materials or radiation machines | RELEASED by NRC & State | | No | Non-impacted Areas No D&D needed | None Required (Areas that have no reasonable potential for residual contamination do not need any level of survey coverage) |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | Torrey Pines west See Fig. S-1 | Parking lot, paved road and raw land | None. Never used for work involving licensed mat'l | RELEASED by NRC 4/22/99 and by State on 5/7/99 | | No | Unaffected land area survey | |
| | Torrey Pines East See Fig. S-1 | Storage or unused | potentially byproduct material | RELEASED by NRC amend 73 2/4/02 Release Requested 696/CAL-3420 11/20/01 | NRC State to release after NRC release | TBD, probably not | Unaffected Area Survey if no contamination is found. | |
| | Linac Land (Includes land area surrounding buildings 30 and 31) See Fig. S-1 | Linear accelerator, R&D, material storage, waste processing (in Bldg 25) | SNM, Source & byproduct material | RELEASED by NRC amend 77 8/2/02 Release Requested CAL/696-3395 8/2/01 NRC confirmatory survey performed 3/10/03-3/14/03 Awaiting State Release | Lead transferred from State to NRC 1/03 (6) State to release after NRC release | Not expected | Unaffected area survey if no contamination found | |

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| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | Bldg 25 Land Release request for former location of Bldg 25 and surrounding land area was included with "Former Building 25 Land Area" report | Liquid filtration station (Bldg 25) located on land | All | D&D began 1/03; Entire building was dismantled, packaged, and sent off site to an authorized Level Level Waste disposal facility. Release request submitted 7/10/03 to NRC & State CAL/696-3622 State in-process survey completed 4/10/03 NRC confirmatory completed by NRC Region IV March 29-30, 2004 | StateDHS RHB; State DTSC; NRC to release after State release Request to transfer from State to NRC submitted by GA on 3/5/04 (696/CAL-3709) | TBD | See Bldg. 25 for anticipated approach. | |
| | Linac North Land (Includes land area surrounding buildings 31-1, 31-2, & 31-3) See Fig. S-1 | Criticality experiments & storage | SNM primarily, and Source material | RELEASED by NRC 11/16/01 (Amend. 72) Release Requested 696/CAL-3366 4/30/01 | NRC State to release after NRC release | Yes | Moderate D&D expected for soil. Affected Area Survey and Soil Criteria | |
| | Torrey Pines Northeast (Includes land area surrounding buildings 20 and 22) See Fig. S-1 | Storage or unused | SNM | RELEASED by NRC Amend. 70, dated 5/11/01 & State Amend 149 dated 10/05/01 | NRC State to release after NRC release | Yes | Moderate D&D performed. Most of area "Affected;" some "Unaffected" areas. | |
| | Hot Cell Land See Fig. S-1 | Hot cell operations | All | RELEASED by NRC Amend. 66 dated 7/03/00 and by State Amend. 143 dated 8/31/00 | | Yes | See Hot Cell Decommissioning Plan and Final Survey Plan "Major D&D" completed. Affected Area Survey completed. | |

| TABLE S-1: General Atomics' Facilities and Sites to Be Decommissioned (Status as of June 14, 2004) | | | | | | | | |
|--|---|--|---------------------------------|--|---|-----------------------------------|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | <p>Torrey Pines North Hillside Land Area -Sections A, B, D and Unaffected Area of Section C</p> <p>TPNH split into 2 land areas since the May 2002 joint meeting</p> | <p>None but adjacent to radiochemistry, TRIGA reactors, hot cell, and TFF</p> <p>(Includes land area along northern boundary of GA's Main Site; to the west of bldg 27 & north of buildings 27, 21 and 22)</p> | None | <p>RELEASED BY NRC amend 75 12/9/02</p> <p>Release requested 696/CAL-3508 8/30/02</p> <p>Awaiting State release</p> | <p>NRC</p> <p>State to release after NRC release</p> | Yes | Soil remediation completed. Both Affected and Unaffected surveys expected. | |
| | <p>Torrey Pines north Hillside Land Area - Suspect Affected Area of Section C</p> | <p>None, but adjacent to radiochemistry, TRIGA reactors, hot cell, & TFF</p> | None | <p>RELEASED by NRC mend 77 7/11/03</p> <p>awaiting State release</p> | <p>NRC</p> <p>State to release after NRC release</p> | Yes | <p>Release requested 696/CAL-3558 1/14/03.</p> <p>NRC confirmatory survey performed 3/10/03-3/14/03</p> | |
| | <p>TRIGA Reactors/Land</p> <p>(See TRIGA Reactors Facility Decommissioning Plan & Fig. S-1A)</p> | <p>TRIGA reactors' cooling towers and outside storage areas</p> | All | Being decommissioned | <p>NRC-NRR</p> <p>(5)</p> | Yes | See TRIGA Reactors Facility Decommissioning Plan | |

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| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | TRIGA Yard (Includes land to the south, east and north of TRIGA reactors.) (See TRIGA Reactors Facility Decommissioning Plan & Fig. S-1A) | Parking, storage, landscaping. | TBD | Being decommissioned | NRC (5) | Yes | Moderate D&D expected with soil remediation. Both Affected and Unaffected area surveys. | |
| | TRIGA Fuel Facility Service/Utility Corridor (TFF Utility Corridor) See Fig. S-1A | Paved road and unused land | None | RELEASED by NRC Amend 71 dated 7/10/01 and State Amend 149, dated 10/05/01 | NRC | None expected | Affected Area and Unaffected Area Surveys | |
| | Bunker Yard (a.k.a EA-1 Bunker Land Area) includes area where bldg 27 bunker and vaulted tank was dismantled and adjacent land See Fig. S-1 | Radiochemistry and R&D | All | RELEASED by NRC on 7/11/03 (Amend #77) Awaiting State Release Release Requested CAL/696-3451 4/5/02 NRC Confirmatory Survey performed 3/10/03-3/14/03 | Lead transferred from State to NRC 1/03 ⁽⁶⁾ State to release after NRC release | Yes | Soil remediated | |

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|---|----------------------|---|---------------------------------|--|--|-----------------------------------|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| Was called Bldg. 21/27 Utility Pad Now "TRIGA Reactor Facility Electrical Pad" See Fig. S-1 and S-1A | | Electric utility pad | none | Release requested (NRC only) 696-3525 10/9/02 NRC concluded no confirmatory survey needed State concluded that the release of the TRIGA® Reactor Facility Electrical Pad is under the discretion of the NRC and not an authorized location under the State license per letter dated July 30, 2003 from Ed Bailey, Chief RHB | NRC State to release after NRC | None | None needed | |
| 27 Service Yard" See Fig. S-1 | | Parking and R/A material storage | All | RELEASED by NRC Amend 77 7/11/03 Awaiting State Release Release Requested 696/CAL-3540 11/20/02 NRC confirmatory survey performed 3/10/03-3/14/03 | Lead transferred from State to NRC 1/03 (6) State to release after NRC release | TBD | | |
| Bldg 27 Surrounding Land See Fig. S-1 and S-1A | | Landscaping, walkway and parking | All | RELEASED State Amends 142 & 145, dated 6/27/00 & 3/15/01; and NRC Amends 67 and 70, dated 9/18/00 & 5/11/01 | | | | |
| TRIGA Trailer Land | | Area underneath the former 21/23 trailer | None | RELEASED by NRC amend 75 12/9/02 awaiting State release | NRC State to release after NRC release | No | No remediation was required. | |

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|---|----------------------|--|---------------------------------|---|----------------------------|-----------------------------------|---|------------------------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| <u>Sorrento Valley Site Land Areas (~ 60 acres):</u> | | | | | | | | |
| Sorrento Valley Hills (Land Surrounding Bldgs. 37-42 on North, West and South) See Fig. S-2 | | None. Never used for work involving radioactive materials | None | RELEASED by NRC & State | | N/A | N/A | |
| Sorrento Valley North (includes the site of the former Building 39) See Fig. S-2 | | Nuclear fuel process development | SNM, uranium and thorium | RELEASED NRC Amendment No. 68 dated 12/22/00, and State Amendment 145 dated 3/15/01. | | | See Final Survey Report | |
| Sorrento Valley Central See Fig. S-2 | | Non-rad use i.e., parking area | None | RELEASED NRC lic. amend. #64 dated 12/17/99 and State lic. amend. #141 dated 1/21/2000 | | None | No D&D required. | Unaffected Area Survey - Completed |
| SVA Footprint (includes site of former north end of bldg 37; a.k.a. Bldg 37 North (37-N) or SVA-North (SVA-N) plus adjacent land area) See Fig. S-2 | | HTGR fuel fabrication and storage vault | HEU and Th | RELEASED NRC Amendment 32, dated 8/1/95; and State Amendment 119, dated 9/5/95 | | | | |

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|--|---|---|---|---|---|-----------------------------------|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | <p>Sorrento Valley West; Areas 1, 2, 3, 4 and 5 See Fig. S-2</p> <p>Area previously known as "Sorrento Valley Southwest (SVSW)" was sub-divided into Areas 4 and 5 of SVW.</p> | <u>Area 1:</u> Storage, preparation of bulk shipments | All, but primarily Enriched U and Th | <p>RELEASED</p> <p>NRC Amend 70 dated 5/11/01 State Amend 149 dated 10/05/01</p> | NRC, State to release after NRC | Yes | NRC surveyed Jan. 2001 | |
| | | <p><u>Area 2:</u> asphalted area - part of upper storage area of NWPF</p> <p><u>Area 3:</u> parking/drive</p> | None | <p>RELEASED</p> <p>NRC Amend 71 dated 7/10/01 State Amend 149 dated 10/05/01</p> | <p>NRC, State to release after NRC.</p> <p>DTSC for NWPF area</p> | No | NRC surveyed April 2001 | |
| | | <u>Area 4</u> adjacent to 41 & 42; asphalted area used for parking and roadway | None | <p>RELEASED by NRC Amend 79 10/6/03</p> <p>Release request submitted 3/18/03 (696/CAL-3579)</p> <p>NRC Region IV confirmatory survey May 13-16, 2003.</p> <p>Awaiting State Release</p> | NRC, State to release after NRC | No | | |

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|--|----------------------|--|---------------------------------|--|---|-----------------------------------|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | | Area 5 Part of Upper NWPF Yard includes small concrete bunker ↓↓ | All | RELEASED by NRC Amend 80 1/30/04 Release request submitted 10/23/03 (696/CAL-3660) NRC in-process survey completed 10/20/03 through 10/23/03. Awaiting State Release | NRC, State to release after NRC plus DTSC | Yes | Minor D&D expected with soil remediation. | |
| | | Bunker within Area 5 | All | RELEASED by NRC Amend 79 10/6/03 Release request submitted 6/11/03 (696/CAL-3608) & 7/14/03 (696/CAL-3623) NRC in-process survey completed 3/10/03-3/14/03 Awaiting State Release | NRC, State to release after NRC | No | Minor D&D accomplished. | |

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|--|---|---|---------------------------------------|---|---|-----------------------------------|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| | <p>Sorrento Valley South (includes land areas associated with Bldg. 41 to the south and east) See Fig. S-2</p> <p>Sorrento Valley South has been segregated into the following areas:</p> <p>1. Building 41 (what's left) 2. NWPF DTSC Area 3. Rest of SVS Land Area</p> | NWPF operations, asphalted area used for parking, roadway, lower storage area of NWPF | all, only in NWPF | <p>NWPF operations suspended, D&D in progress.</p> <p>NRC confirmatory survey of following completed on March 29-30, 2004: (1) the former Building 25 Site and (2) Building 41 (unaffected remaining portion of the building)</p> | <p>StateDHS RHB; State DTSC has jurisdiction of NWPF only; NRC to release after State release</p> <p>Request to transfer from State to NRC submitted by GA on 3/11/04 (696/CAL-3709) ⁽⁷⁾</p> | Expected in the NWPF | <p>Major D&D expected with soil remediation.</p> <p>Both Affected and Unaffected area surveys</p> | |
| | <p>Sorrento Valley Southwest (Sorrento Valley Southwest was divided into 2 areas that were re-named as Areas 4 and 5 of Sorrento Valley West - See above)</p> | | | | | | | |
| | <p>Sorrento Valley East (DIII-D facilities, parking & surrounding land areas) See Fig. S-2</p> | Fusion experiment buildings, raw land, paved parking | radiation producing machines, tritium | <p>Ongoing fusion research.</p> <p>Deleted from NRC license</p> | State | NO | <p>See bldg 34 plus unaffected land area survey</p> <p>No D&D expected</p> | |
| | <p>Test Tower Land See Fig. S-2</p> | Non-rad use except for Bldg 35 (test tower) | Mixed fission products in Bldg 35 | <p>RELEASED by NRC & State (NRC amend. #57 dated 7/26/99 and State amend. #140 dated 9/10/99)</p> | | NO | unaffected area survey for land areas | |

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| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| Underground Pipes (e.g. Sewer Lines) | | | | | | | | |
| Main Site | | | | | | | | |
| Underground "rabbit tube" from reactors to Bldg. 2 | | Rapid transport of radioactive samples | Byproduct | Investigation concluded no credible scenario for contamination. Surveys in March and April, 2002 confirmed conclusion. | NRC; State release to follow NRC ⁽⁵⁾ | None | None needed | |
| Torrey Pines Northeast | | sewer | | removed | NRC | None | | |
| Hot Cell Site | | sewer | | removed | NRC | None | | |
| Main Site (exclusive of sewer line from S-13 to 15 to 18; from S-18 to Bldg 31-1; and abandoned line leading to old pump station - see below) | | sewer | various | Request to release is included in "Sewer Project" per request submitted April 20, 2004 (696/CAL-3724) Final report includes surveys of manholes and accessible pipes complete | NRC | Contamination detected and remediated in three manholes: One manhole and portion of associated piping being replaced | | |
| Sewer line trench from S-13 to S-15 to S-18 | | sewer line | various | RELEASED NRC Amend 74 dated 6/19/02 Awaiting State Release | NRC and State | No soil contamination. Contaminated pipe excavated and disposed of as LLW Trench backfilled after approval from NRC and State obtained. | | |
| Sewer line from S-18 to Bldg 31-1 | | sewer line | various | Pipe excavated; concurrence to backfill requested and obtained. Request to release is included in "Sewer Project" per request submitted April 20, 2004 (696/CAL-3724) | NRC and State | No soil contamination detected. Trench backfilled | | |

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|---|----------------------|--------------------------|---------------------------------|---|----------------------------|---|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| Abandoned sewer line running from vault near south gate to property line(used to connect to old pump station) | | sewer line | Various | Pipe was cut and capped at property line when old pump station was taken out of service. Final survey report for old pump station documented this pipe as being radiologically clean/BG levels Request to release is included in "Sewer Project" per release request submitted April 20, 2004 (696/CAL-3724) | NRC and State | No soil contamination anticipated. Plans were to excavate Sewer line and survey and dispose of accordingly. However, after a review of the Final Report for the former Pump Station, no evidence was found to indicate the remaining line was contaminated. Therefore, no further action is planned. Information to be supplied in the Sewer Project Final Report. | | |
| Sorrento Valley Sewer Lines | | | | | | | | |
| Sorrento Valley North | | sewer | various | RELEASED Contaminated Drain lines associated with Bldg 39 removed during D&D | NRC | None | | |
| Sorrento Valley Site | | sewer | various | Request to release is included in "Sewer Project" per release request submitted April 20, 2004 (696/CAL-3724) | NRC | None | No contamination detected | |

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|---|----------------------|--------------------------|---------------------------------|----------------------------------|----------------------------|-----------------------------------|---|-----------------------|
| Building No. | Name/ Description | Type of Operation/Use | Radioactive Material Used | Status and Current Operation/Use | Regulatory Jurisdiction | Ground (soil) Contamination | Anticipated | |
| | | | | | | | D&D Effort and Approach ⁽⁴⁾ | Final Survey Required |
| <p>(1) The north end of Building 37 (HTGR Fuel Fab Facility) was released by the NRC and the State in 1995 (see "SVA Footprint" land area); the north end of the building dismantled (no longer exists).</p> <p>(2) Building 2 Summary: In Bldg 2, there are a total of 142 labs, as of March 15, 2001, all have been released by NRC and State. Eight labs in use under State license:517, 530/532, 523, 534, 560/562/564 (Diazyme labs).</p> <p>(3) The underground storage tanks were removed in 1984. A report dated 2/11/85 provides the results of soil samples collected in each area where tanks were removed. Official release to unrestricted use from the NRC and the State of CA was requested for all tanks except Bldg 2/Lab 307 by letter 696/CAL-3081 dated 5/17/99. NRC released locations of previously removed tanks by License Amendment No. 59, dated August 12, 1999; State released same with Amendment No. 140 dated Sept. 10, 1999. The State of CA also released these tanks per License Amendment No. 140 dated September 10, 1999.</p> <p>(4) Summary of Approaches: Approach A: Removal of radioactive material sources Only. No contamination expected or likely. Confirmatory or Scoping Survey needed. If no contamination is found, no further action is needed. Approach B: Minor facility cleanup required including scabbling a small area of concrete. Approach C: Major cleanup required including aggressive D&D of large areas. Facility contamination is widespread.</p> <p>(5) The State of California was requested to acknowledge that they do not have or want any regulatory jurisdiction regarding TRIGA reactor facility (Building 21) and site (TRIGA Reactor Facility and surrounding land area) release requests per Letter dated October 9, 2002 (696-3525) to Ms. Mary Adams, (NRC: Request to Release "TRIGA® Reactor Facility Electrical Pad" to Unrestricted Use and Delete it from GA's License) and Ms. Sudana Kwok, (State: Request for State to Acknowledge NRC's sole Jurisdiction Over GA's TRIGA® Reactor Related Release Requests). GA to submit another letter to the State requesting exact areas with drawings attached.</p> <p>(6) The State agreed to transfer the lead to the NRC (Letter dated January 9, 2003 signed by Edgar Bailey to Keith E. Asmussen cc: Daniel Gillen (NRC); and The NRC agreed to be the Lead Agency per Letter dated January 24, 2003 signed by Daniel M. Gillen (NRC) to Keith Asmussen .</p> <p>(7) Includes both the former Building 25 site and the Sorrento Valley South Land Area which includes Building 41 and the surrounding storage yards.</p> | | | | | | | | |