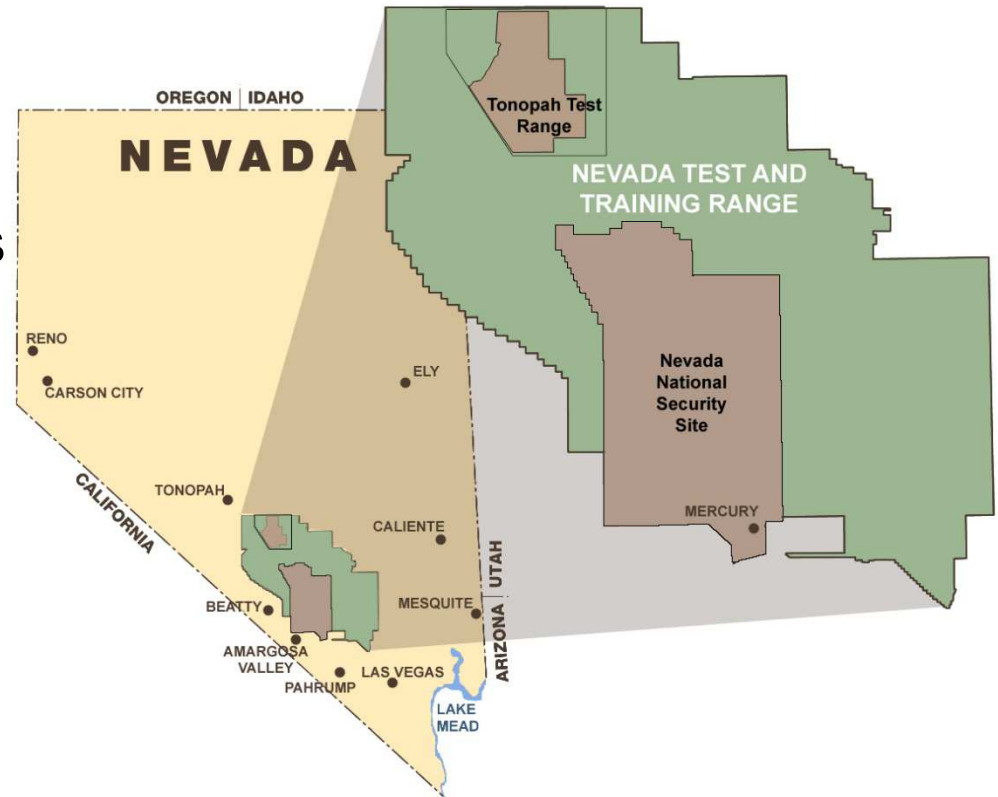


Nevada National Security Site (NNSS)

- U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office responsible for oversight
- Located approximately 65 miles northwest of Las Vegas
- 1,360 square miles of federally owned and controlled land – surrounded by approximately 4,500 square miles of federally owned and controlled land



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Challenges/Successes

- Specific Waste Streams
 - U-233 Consolidated Edison Uranium Solidification Program (CEUSP)
 - Radioisotope Thermal Generator (RTG)
 - West Valley Melter
 - Low-Level Waste (LLW)
 - Classified Matter Disposal

Table E-1: Radionuclide Action Levels for Waste Characterization and Reporting

Nuclide	Action Level (Bq m ⁻³)	Nuclide	Action Level (Bq m ⁻³)
³ H	6.2E+11	²¹⁰ Pb	3.5E+11
¹⁴ C	5.4E+15	²²⁶ Ra	2.1E+07
²⁶ Al	9.7E+07	²²⁸ Ra	1.7E+12
³⁶ Cl	1.9E+08	²²⁷ Ac	1.7E+11
³⁹ Ar	9.9E+20	²²⁸ Th	4.3E+13
⁴⁰ K	9.4E+10	²²⁹ Th	2.8E+10
⁴¹ Ca	2.8E+12	²³⁰ Th	6.0E+07
⁵⁹ Ni	1.7E+14	²³² Th	8.1E+09
⁶³ Ni	3.2E+14	²³¹ Pa	1.0E+10
⁶⁰ Co	1.6E+12	²³⁵ U	4.3E+10
⁸⁵ Kr	2.0E+20	²³⁵ U	8.2E+10
⁹⁰ Sr	4.3E+11	²³⁴ U	1.3E+10
⁹³ Zr	1.1E+14	²³⁵ U	1.1E+11
^{93m} Nb	4.6E+15	²³⁶ U	2.8E+11
⁹⁴ Nb	1.2E+10	²³⁸ U	3.5E+11
⁹⁹ Tc	3.2E+09	²³⁷ Np	3.4E+10
¹⁰⁷ Pd	2.9E+14	²³⁸ Pu	1.8E+12
^{113m} Cd	6.2E+12	²³⁹ Pu	5.1E+11
^{121m} Sn	2.1E+14	²⁴⁰ Pu	5.2E+11
¹²⁶ Sn	1.1E+10	²⁴¹ Pu	5.8E+12
¹²⁹ I	3.4E+09	²⁴² Pu	3.7E+11
¹³³ Ba	5.4E+12	²⁴⁴ Pu	4.8E+10
¹³⁵ Cs	2.8E+12	²⁴¹ Am	1.7E+11
¹³⁷ Cs	2.5E+11	²⁴³ Am	5.8E+10
¹⁵⁰ Eu	9.4E+10	²⁴⁵ Cm	8.3E+11
¹⁵⁷ Eu	4.7E+11	²⁴⁴ Cm	3.4E+12
¹⁵⁴ Eu	1.7E+12	²⁴⁵ Cm	4.6E+10
¹⁵¹ Sm	2.4E+15	²⁴⁶ Cm	9.2E+10
^{166m} Ho	1.2E+10	²⁴⁸ Cm	2.9E+10
²⁰⁷ Bi	1.1E+11	²⁵⁰ Cf	1.5E+12



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