

**Data Category: Spent Nuclear Fuel****Stream Characteristic Detail (SNF-10)**

STATE: California

PROGRAM: Office of Environmental Management

SITE: GenAtomics

OPERATIONS OFFICE: Oakland Operations Office

GenAtomics - Spent Nuclear Fuel - TRIGA Reactor SNF

STREAM CODE: 01725

Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
GA TRIGA Reactor Facility	100

Source Reactor	% of Stream Quantity
GA-TRIGA MARK F	100.00

**ISOTOPE AND CONTAMINANT PROFILES**

% of Stream	TOTAL CURIES:
100	TRIGA Reactor SNF
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 1.7706E-006 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 2.6087E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 1.1960E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 5.0739E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Antimony-125	Avg Concentration: 5.8648E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 1.8832E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Cadmium-113m	Avg Concentration: 2.4516E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 7.9938E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Cerium-144	Avg Concentration: 2.4855E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 2.6079E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 1.8967E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 1.9914E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Chlorine-36	Avg Concentration: 1.7214E-002 Ci      Low Limit Concent:      Upper Limit Concent:

Cobalt-60	<b>Avg Concentration:</b> 7.9235E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 2.7844E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 6.2559E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 2.7844E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 2.2608E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 1.5484E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 2.3349E-011 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 4.7584E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 2.5433E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 7.7154E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 5.2637E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 4.9090E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 1.8215E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 1.4377E-010 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 5.1572E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 3.2288E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 3.9661E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.5834E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 4.9444E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 4.7516E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.4125E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 2.1138E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.1907E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 2.4057E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.3844E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 1.1367E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 1.1262E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 3.6266E-010 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Radium-228	<b>Avg Concentration:</b> 2.5078E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 6.9555E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 1.4468E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.1113E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 9.3697E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.8757E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 3.0706E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.4366E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 4.1436E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 8.8032E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.5357E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 5.4940E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 4.9430E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.4225E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.0268E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.3414E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.8759E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 5.5770E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

GenAtomics - Spent Nuclear Fuel - Hot Cell Facility Irradiated Fuel Materials - High-Temperature Gas-Cooled Reactor (HTGR)	STREAM CODE: 04265
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Stream Fuel Types
Graphite type SNF

Storage Facility	% of Stream Quantity
Hot Cell Facility	100

Source Reactor	% of Stream Quantity
Various Test Reactors	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Hot Cell Facility Irradiated Fuel Materials - High
<b>Isotopes</b>	
Americium-241	Avg Concentration: 1.3330E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 1.7917E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 9.7216E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Antimony-125	Avg Concentration: 4.7188E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 1.1130E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 8.5739E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 2.4892E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 5.2027E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 1.3062E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Chlorine-36	Avg Concentration: 1.0116E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-242	Avg Concentration: 3.6707E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-243	Avg Concentration: 9.7899E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-244	Avg Concentration: 3.6707E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-245	Avg Concentration: 8.7968E-003 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-246	Avg Concentration: 2.5232E-003 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-247	Avg Concentration: 7.4296E-009 Ci      Low Limit Concent:      Upper Limit Concent:
Hydrogen-3	Avg Concentration: 2.4013E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Iodine-129	Avg Concentration: 7.9321E-002 Ci      Low Limit Concent:      Upper Limit Concent:

Krypton-85	Avg Concentration: 8.6754E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.0703E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 5.6739E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 7.0576E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 1.7847E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 4.3167E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 3.2091E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 3.0109E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 7.8649E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.3976E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 7.4205E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.1241E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 2.5407E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 9.9243E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 2.4983E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 2.0567E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 1.0917E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 1.2380E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 2.7662E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 4.6838E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 2.0302E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 4.4552E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 1.1033E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 2.6946E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 2.1154E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 7.7088E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 7.7042E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 2.0061E-003 Ci	Low Limit Concent:	Upper Limit Concent:

Zirconium-93	Avg Concentration: 4.4299E+001 Ci	Low Limit Concent:	Upper Limit Concent:
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GenAtomics - Spent Nuclear Fuel - Hot Cell Facility Irradiated Fuel Material - Reduced-Enrichment Research and Test Reactor (RERTR)	STREAM CODE: 04266
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Hot Cell Facility	100

Source Reactor	% of Stream Quantity
OakRidge Research Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Hot Cell Facility Irradiated Fuel Material - Reduc
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 8.0890E-009 Ci Low Limit Concent: Upper Limit Concent:
Americium-241	Avg Concentration: 4.0140E-001 Ci Low Limit Concent: Upper Limit Concent:
Americium-242m	Avg Concentration: 1.7030E-003 Ci Low Limit Concent: Upper Limit Concent:
Americium-243	Avg Concentration: 8.2430E-004 Ci Low Limit Concent: Upper Limit Concent:
Antimony-125	Avg Concentration: 3.4950E+000 Ci Low Limit Concent: Upper Limit Concent:
Barium-137m	Avg Concentration: 9.9010E+001 Ci Low Limit Concent: Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.6260E-002 Ci Low Limit Concent: Upper Limit Concent:
Carbon-14	Avg Concentration: 4.4520E-003 Ci Low Limit Concent: Upper Limit Concent:
Cerium-144	Avg Concentration: 1.2740E+001 Ci Low Limit Concent: Upper Limit Concent:
Cesium-134	Avg Concentration: 1.3610E+001 Ci Low Limit Concent: Upper Limit Concent:
Cesium-135	Avg Concentration: 9.1630E-004 Ci Low Limit Concent: Upper Limit Concent:
Cesium-137	Avg Concentration: 1.0470E+002 Ci Low Limit Concent: Upper Limit Concent:
Chlorine-36	Avg Concentration: 9.5960E-005 Ci Low Limit Concent: Upper Limit Concent:
Cobalt-60	Avg Concentration: 4.4090E+001 Ci Low Limit Concent: Upper Limit Concent:
Curium-242	Avg Concentration: 4.4080E-003 Ci Low Limit Concent: Upper Limit Concent:
Curium-243	Avg Concentration: 9.7100E-004 Ci Low Limit Concent: Upper Limit Concent:
Curium-244	Avg Concentration: 4.4080E-003 Ci Low Limit Concent: Upper Limit Concent:
Curium-245	Avg Concentration: 2.7330E-006 Ci Low Limit Concent: Upper Limit Concent:

Curium-246	<b>Avg Concentration:</b> 1.9510E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 2.4270E-013 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 2.5860E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.3930E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 4.2000E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 2.9120E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 2.7260E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 9.2670E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 6.4750E-013 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 2.4260E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 1.8010E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 2.2100E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 8.2420E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 2.7560E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 3.9290E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 7.0380E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 2.3270E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.6970E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 3.6960E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 2.4400E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 5.9860E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 4.9280E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.6750E-012 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 9.8250E-010 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 5.4780E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 7.5880E-009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 4.9180E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 4.8990E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Strontium-90	<b>Avg Concentration:</b> 9.4970E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.6150E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.1100E-009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.6240E-009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 5.1990E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 7.2480E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 3.0060E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.2620E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.2270E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 4.9410E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.3280E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 9.4990E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 2.8980E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

<b>STATE:</b> Colorado	<b>PROGRAM:</b> Office of Environmental Management
<b>SITE:</b> St. Vrain	<b>OPERATIONS OFFICE:</b> Unknown

St. Vrain - Spent Nuclear Fuel - Ft. Saint Vrain	<b>STREAM CODE:</b> 04429
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Stream Fuel Types
Graphite type SNF

Storage Facility	% of Stream Quantity
Independent Spent Fuel Storage	100

Source Reactor	% of Stream Quantity
Fort St Vrain Nuc Gen Sta	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Ft. Saint Vrain

Isotopes			
Americium-241	<b>Avg Concentration:</b> 9.7572E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 1.3115E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-243	<b>Avg Concentration:</b> 7.1162E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Antimony-125	<b>Avg Concentration:</b> 3.4542E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Barium-137m	<b>Avg Concentration:</b> 8.1471E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 6.2761E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-134	<b>Avg Concentration:</b> 1.8221E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-135	<b>Avg Concentration:</b> 3.8084E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-137	<b>Avg Concentration:</b> 9.5612E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Chlorine-36	<b>Avg Concentration:</b> 7.4047E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 2.6869E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 7.1662E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 2.6869E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 6.4393E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Curium-246	Avg Concentration: 1.8470E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 5.4384E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 1.7577E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 5.8063E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 6.3504E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 7.8348E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 4.1533E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 5.1662E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 1.3064E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 3.1598E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.3491E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.2040E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 5.7571E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.0231E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 5.4318E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 8.2286E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 1.8598E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 7.2646E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 1.8288E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 1.5055E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 7.9912E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 9.0624E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 2.0249E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 3.4285E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 1.4861E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 3.2612E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 8.0761E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 1.9725E+005 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-234	Avg Concentration: 1.5485E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 5.6428E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 5.6395E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 1.4685E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 3.2427E+004 Ci	Low Limit Concent:	Upper Limit Concent:

<b>STATE:</b> Idaho	<b>PROGRAM:</b> Office of Defense Programs
<b>SITE:</b> Argonne-W	<b>OPERATIONS OFFICE:</b> Chicago Operations Office

Argonne-W - Spent Nuclear Fuel - SNL Sodium Bonded SNF	<b>STREAM CODE:</b> 04453
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Source Reactor	% of Stream Quantity
Annular Core Research Rx	

**No Information Provided for this Stream**

<b>STATE:</b> Idaho	<b>PROGRAM:</b> Office of Environmental Management
<b>SITE:</b> Argonne-W	<b>OPERATIONS OFFICE:</b> Chicago Operations Office

Argonne-W - Spent Nuclear Fuel - INTEC Metallic Sodium Bonded	<b>STREAM CODE:</b> 04450
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Source Reactor	% of Stream Quantity
EBR-II	
Engineering Test Reactor	

**No Information Provided for this Stream**

Argonne-W - Spent Nuclear Fuel - Hanford Sodium Bonded SNF	STREAM CODE: 04459
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Source Reactor	% of Stream Quantity
Fast Flux Test Facility	

**No Information Provided for this Stream**

<b>STATE:</b> Idaho	<b>PROGRAM:</b> Nuclear Energy
<b>SITE:</b> Argonne-W	<b>OPERATIONS OFFICE:</b> Chicago Operations Office

Argonne-W - Spent Nuclear Fuel - ANL-W Metallic Sodium Bonded SNF	<b>STREAM CODE:</b> 04458
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Fuel Conditioning Facility	5
Hot Fuel Exam Facility	1
Rad Scrap & Waste Fac	94

Source Reactor	% of Stream Quantity
EBR-II	99.92
Fast Flux Test Facility	0.08

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	ANL-W Metallic Sodium Bonded SNF
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 5.7231E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 1.0816E+006 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 3.1438E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 1.0796E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Antimony-125	Avg Concentration: 3.7441E+006 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 1.6658E+009 Ci      Low Limit Concent:      Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.7777E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 1.8825E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cerium-144	Avg Concentration: 1.0526E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 1.2261E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 6.3891E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 1.7609E+009 Ci      Low Limit Concent:      Upper Limit Concent:

Chlorine-36	<b>Avg Concentration:</b> 4.7739E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cobalt-60	<b>Avg Concentration:</b> 1.2100E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 2.5876E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 1.3447E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 2.5876E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 2.2148E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 1.5101E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 1.5808E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 2.6558E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 7.0879E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 4.6310E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 6.4417E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 3.4069E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 1.1121E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 8.9580E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 7.2030E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 6.7942E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 2.4079E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 2.9384E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 7.1749E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 4.7082E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.3767E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 1.9939E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.8243E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 3.0787E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 2.6310E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 1.3153E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 1.3660E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Radium-226	<b>Avg Concentration:</b> 6.1904E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.0196E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 1.4305E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 2.0395E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.2949E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.0792E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.6659E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 3.4467E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.8479E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.0578E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.1632E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 9.5788E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 2.4450E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.3367E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.7721E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.2313E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 6.9564E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.6663E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 5.3911E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Argonne-W - Spent Nuclear Fuel - ANL-W SNF	STREAM CODE: 04461
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Stream Fuel Types
Commerical type SNF
DOE Test SNF SST clad
DOE Test SNF Zirc clad

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	ANL-W SNF		
	Isotopes		
	Actinium-227	Avg Concentration: 1.8305E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 2.4952E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 4.8407E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 6.7055E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 5.1152E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 3.8521E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 3.7223E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 2.6057E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 1.5325E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 1.5779E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 4.1477E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 4.0735E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 5.5150E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 3.5767E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 3.9850E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 5.6686E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 3.9850E+002 Ci	Low Limit Concent: Upper Limit Concent:

Curium-245	<b>Avg Concentration:</b> 8.3031E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 1.0046E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 2.5082E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 7.7594E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.4103E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 9.6122E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 1.5048E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 3.0414E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 2.0068E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 5.2981E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 2.5399E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 1.0038E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 1.1418E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.0395E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 1.5913E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.5036E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.0151E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.1799E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 2.5093E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 4.3990E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.0661E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 8.1240E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 4.6287E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 2.9144E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 4.5494E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 2.7485E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 3.6720E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.8392E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Selenium-79	<b>Avg Concentration:</b> 2.6998E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 3.7742E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 8.4803E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 9.1314E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 4.9672E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 2.5735E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 8.2634E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.4313E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 9.8704E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 5.5566E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.8508E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.4538E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 3.7742E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.6293E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

<b>STATE:</b> Idaho	<b>PROGRAM:</b> Office of Defense Programs
<b>SITE:</b> Idaho	<b>OPERATIONS OFFICE:</b> Idaho Operations Office

Idaho - Spent Nuclear Fuel - SNL Sodium Bonded	<b>STREAM CODE:</b> 02307
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Source Reactor	% of Stream Quantity
Annular Core Research Rx	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Naval SNF Receipts	STREAM CODE: 04447
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Source Reactor	% of Stream Quantity
Shippingport PWR	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - INTEC Transfers to NRF

STREAM CODE: 04454

**No Information Provided for this Stream**

<b>STATE:</b> Idaho	<b>PROGRAM:</b> Office of Environmental Management
<b>SITE:</b> Idaho	<b>OPERATIONS OFFICE:</b> Idaho Operations Office

Idaho - Spent Nuclear Fuel - TMI Core Debris	<b>STREAM CODE:</b> 00716
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Stream Fuel Types
Commerical type SNF

Storage Facility	% of Stream Quantity
TAN Hot Shop TAN-607	100

Source Reactor	% of Stream Quantity
Three Mile Island Unit 2	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	TMI Core Debris

Isotopes			
Actinium-227	<b>Avg Concentration:</b> 6.3235E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-241	<b>Avg Concentration:</b> 2.3285E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 2.0274E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-243	<b>Avg Concentration:</b> 1.3672E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 3.1913E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-135	<b>Avg Concentration:</b> 1.0910E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 2.5976E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 6.7301E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 7.2643E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 5.7960E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 4.2672E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 4.8182E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 1.6320E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.2667E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Plutonium-238	<b>Avg Concentration:</b> 2.5533E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.1332E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 9.5659E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 8.8133E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.1095E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 1.3097E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.7855E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.0234E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 2.4400E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.1894E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 3.8573E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.0738E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.5489E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.7936E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.0046E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 6.9216E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.3104E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.1108E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 9.0115E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 5.5944E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - NRC TMI-2 Core Debris	STREAM CODE: 00718
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Stream Fuel Types
Commerical type SNF

Storage Facility	% of Stream Quantity
TMI Dry Storage Fac.	100

Source Reactor	% of Stream Quantity
Three Mile Island Unit 2	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	NRC TMI-2 Core Debris		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 1.5056E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 5.5440E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 4.8272E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 3.2552E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 7.5984E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 2.5976E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 6.1848E-004 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 1.6024E-005 Ci	Low Limit Concent: Upper Limit Concent:
	Iodine-129	Avg Concentration: 1.7296E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Lead-210	Avg Concentration: 1.3800E-006 Ci	Low Limit Concent: Upper Limit Concent:
	Neptunium-237	Avg Concentration: 1.0160E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Niobium-93m	Avg Concentration: 1.1472E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Niobium-94	Avg Concentration: 3.8856E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Palladium-107	Avg Concentration: 3.0160E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Plutonium-238	Avg Concentration: 6.0792E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Plutonium-239	Avg Concentration: 7.4600E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Plutonium-240	Avg Concentration: 2.2776E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Plutonium-241	Avg Concentration: 2.0984E+005 Ci	Low Limit Concent: Upper Limit Concent:

Plutonium-242	<b>Avg Concentration:</b> 2.6416E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 3.1184E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 4.2512E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 4.8176E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 5.8096E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 2.8320E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 9.1840E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 4.9376E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 6.0688E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 4.2704E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 2.3920E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.6480E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.1200E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.6448E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 2.1456E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.3320E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Wet Stainless Steel, Zirconium, & Misc SNF	STREAM CODE: 00720
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Stream Fuel Types
DOE Test SNF SST clad
DOE Test SNF Zirc clad
DOE Test SNF-Not SST or Zirc clad

Storage Facility	% of Stream Quantity
Fuel Storage Area INTEC-666	90
Power Burst Facility PER-620	10

Source Reactor	% of Stream Quantity
Boiling Reactor Exper V	0.38
Enrico Fermi Atomic Power Plt	70.64
Exp Propulsion Test Rx	0.88
GA-TRIGA MARK F	0.36
GE Test Reactor	0.08
Gas-Cooled Rx Experiment	0.05
Heat Transfer Reactor Exp	0.02
Michigan State University	0.15
Pathfinder Atomic Pwr Plt	0.96
Power Burst Facility	10.14
Pulstar Buffalo	4.55
Shippingport PWR	9.46
Special Pwr Excur Rx Test	0.01
Stationary Med Pwr Plt 1A	1.19
Systems for Nuc Aux Power	0.54
Texas A&M TRIGA	0.02
University of CA at Berkley	0.35
Vallecitos Boiling Water	0.23

**ISOTOPE AND CONTAMINANT PROFILES**

% of Stream	TOTAL CURIES:		
100	Wet Stainless Steel, Zirconium, & Misc SNF		
<b>Isotopes</b>			
Actinium-227	<b>Avg Concentration:</b> 1.3128E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-241	<b>Avg Concentration:</b> 5.0047E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 9.6664E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Americium-243	Avg Concentration: 6.6337E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Antimony-125	Avg Concentration: 3.4333E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 1.9144E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.9051E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 1.0234E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 3.8978E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 1.8123E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 3.8445E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 2.0237E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 1.6195E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 9.7961E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 7.9957E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 4.0272E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 7.9957E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 1.6405E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 1.8051E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 6.5196E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 9.1079E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 3.7699E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 4.2288E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 9.9138E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 8.0153E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 8.2030E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 4.5278E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 9.0068E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 3.2634E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 3.3335E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 7.3618E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Niobium-94	<b>Avg Concentration:</b> 9.0323E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 8.6725E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 2.8691E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 6.8882E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.4418E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 4.7478E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.0210E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 1.1509E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 3.0925E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.4927E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 1.3711E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 6.9722E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 3.3352E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 2.8871E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.7050E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.8761E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 5.4196E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.1387E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.4871E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.9685E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.9436E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 8.9160E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.3302E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.8103E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.7694E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.8557E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.8771E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.0027E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>



Idaho - Spent Nuclear Fuel - Dried/Packaged Stainless/Zirc/Misc SNF	STREAM CODE: 00722
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Irrad. Fuel Storage INTEC-603	100

Source Reactor	% of Stream Quantity
Berlin Experimental Rx. BER-2)	3.18
Cornell University TRIGA	4.13
GA-TRIGA MARK F	15.62
Hanover	4.97
Heidelberg	7.59
Imperial Chemical Industries	6.09
Kansas St Univ Nuc Rx Fac	3.87
Ljubljana	13.67
Michigan State University	3.68
Pitesti	1.93
Rome	8.84
SEOUL #2	13.81
SEOUL 1 & 2	4.48
TRIGA	3.75
U of TX TRIGA MARK II	4.38

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Dried/Packaged Stainless/Zirc/Misc SNF		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 2.8638E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 5.3931E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 2.8993E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 3.8081E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 4.1211E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 2.8896E+007 Ci	Low Limit Concent: Upper Limit Concent:

Cadmium-113m	<b>Avg Concentration:</b> 2.5296E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 6.7175E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cerium-144	<b>Avg Concentration:</b> 1.0756E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-134	<b>Avg Concentration:</b> 6.0187E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-135	<b>Avg Concentration:</b> 4.9014E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-137	<b>Avg Concentration:</b> 3.0546E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Chlorine-36	<b>Avg Concentration:</b> 6.8643E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cobalt-60	<b>Avg Concentration:</b> 7.5682E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 2.4078E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 3.0381E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 2.4078E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 1.4119E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 1.0305E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 1.8724E-010 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 6.2627E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 8.4243E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 7.3397E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 1.1532E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 8.4322E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 1.5150E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 6.2057E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 2.3564E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 2.1827E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 2.5922E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 8.1248E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 5.5708E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.0020E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 2.0753E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Plutonium-239	<b>Avg Concentration:</b> 8.8389E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 3.5129E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 9.5644E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 4.7933E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 8.7960E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 8.5754E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 3.7493E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 3.3773E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 1.9509E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 1.5059E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 3.7629E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 2.0210E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 2.8526E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 6.8912E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.4319E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 3.6859E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.9113E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 7.7487E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 2.0396E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.1228E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.4138E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.9899E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.1238E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 2.8549E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.2749E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Dry Graphite,Stainless, Zirc, & Misc SNF	STREAM CODE: 00724
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Stream Fuel Types
DOE Test SNF SST clad
DOE Test SNF Zirc clad
Graphite type SNF

Storage Facility	% of Stream Quantity
Fuel Element Cutting Facility	0
Irrad. Fuel Storage INTEC-603	19
Underground Str Fac INTEC-749	81

Source Reactor	% of Stream Quantity
Exp Propulsion Test Rx	0.11
Fort St Vrain Nuc Gen Sta	16.41
Organic Mod Rx Experiment	0.00
Peach Bottom Unit 1	2.45
Shippingport LWBR	81.03

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Dry Graphite,Stainless, Zirc, & Misc SNF		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 3.5132E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 5.0220E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 7.4205E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 3.6470E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 3.2862E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 4.2765E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 1.2585E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 3.2288E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 2.5637E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 2.0980E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 2.0672E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 5.0029E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 3.8542E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 9.1190E+002 Ci	Low Limit Concent: Upper Limit Concent:

Curium-242	<b>Avg Concentration:</b> 1.3663E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 3.8480E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 1.3663E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 3.3657E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 9.5213E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 2.8159E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 2.5391E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.0023E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 9.3646E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 3.0326E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 1.6269E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 3.3347E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 4.3280E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 2.1505E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 2.6563E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 6.9869E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 3.0698E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 8.2452E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.2235E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.1381E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.0576E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 5.2882E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 1.9937E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 3.9023E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 6.1293E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 3.3307E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 4.6406E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 9.9615E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Ruthenium-106	<b>Avg Concentration:</b> 4.5867E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 9.2938E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 7.7317E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 4.2306E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 4.7466E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.0548E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.7820E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 8.0803E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.8379E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 5.4119E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.0622E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 8.2327E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 2.9698E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.9187E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 7.6458E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.4116E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.6531E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - NRC Licensed Storage

STREAM CODE: 00728

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Dry Commercial SNF	STREAM CODE: 00730
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Stream Fuel Types
Commerical type SNF

Storage Facility	% of Stream Quantity
TAN Cask Storage Pad TAN-791	100

Source Reactor	% of Stream Quantity
Surry Power Reactor 1 & 2	38.01
Turkey Point & Surry	55.12
Turkey Point Unit 3	6.86

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Dry Commercial SNF

Isotopes			
Actinium-227	Avg Concentration: 1.2063E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 5.8239E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 9.6452E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 2.5580E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Antimony-125	Avg Concentration: 1.5327E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 8.5441E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 2.3368E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 1.6359E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 4.9971E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 1.1168E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 6.0087E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 9.0317E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 2.1235E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 1.9190E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 7.9405E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 1.4481E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Curium-244	<b>Avg Concentration:</b> 7.9405E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 1.9141E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 3.8665E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 1.0087E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 1.6634E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.7332E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 2.6396E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 5.5004E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 1.5877E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 2.3398E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 4.6392E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 5.8406E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 3.6257E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 3.9963E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 2.5482E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 4.6776E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.9338E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 3.2373E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 5.6145E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 9.7101E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 5.3982E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 2.7694E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 8.4596E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 2.7252E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 2.2189E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.5334E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 1.0578E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 8.1401E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Samarium-151	<b>Avg Concentration:</b> 5.2920E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 7.1344E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 6.2102E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.2719E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 4.8024E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.6229E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.3557E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 2.4194E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 9.7465E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 3.2629E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 2.9296E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 4.4692E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 5.5231E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 6.2122E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 3.3573E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Colorado FSV SNF	STREAM CODE: 00732
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Source Reactor	% of Stream Quantity
Fort St Vrain Nuc Gen Sta	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Wet Aluminum Based SNF	STREAM CODE: 00734
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
Fuel Storage Area INTEC-666	100

Source Reactor	% of Stream Quantity
Advanced Test Reactor	93.30
High Flux Beam Reactor	4.65
U of MO Rolla Reactor	1.74
U of WA ARGONANT	0.31

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Wet Aluminum Based SNF

Isotopes			
Actinium-227	Avg Concentration: 9.9079E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 3.0308E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 3.0865E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 1.6084E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 8.3744E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 6.3872E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 3.6710E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 3.6425E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 2.1313E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 8.9832E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 2.5507E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 5.3788E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 2.5507E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 1.5666E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 4.2328E-003 Ci	Low Limit Concent:	Upper Limit Concent:

Europium-154	Avg Concentration: 8.6176E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 2.1716E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 2.2664E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 2.6722E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 6.7996E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 6.0744E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 1.7578E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 5.3539E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 4.4652E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 1.2505E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 3.0310E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 2.3844E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 9.5680E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.4447E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 5.6790E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 2.4098E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 6.3819E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 6.0166E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 1.2131E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.8415E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 8.6720E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 7.4732E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 7.2483E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 8.7056E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 1.5025E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 2.8161E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 2.8097E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 2.3866E+003 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-232	Avg Concentration: 3.2593E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 4.1278E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 3.3887E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 2.7661E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 5.4732E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 4.0522E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 8.7056E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 1.4806E+004 Ci	Low Limit Concent:	Upper Limit Concent:

Idaho - Spent Nuclear Fuel - Dried/Packaged AI Based SNF	STREAM CODE: 00736
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
Irrad. Fuel Storage INTEC-603	100

Source Reactor	% of Stream Quantity
ARMF/CFRMF	63.75
Advanced Test Reactor	29.00
High Flux Beam Reactor	1.54
OakRidge Research Reactor	0.95
U of MO Rolla Reactor	4.75

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Dried/Packaged AI Based SNF
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 1.2389E-002 Ci Low Limit Concent: Upper Limit Concent:
Americium-241	Avg Concentration: 3.8390E+004 Ci Low Limit Concent: Upper Limit Concent:
Americium-242m	Avg Concentration: 3.9093E+001 Ci Low Limit Concent: Upper Limit Concent:
Americium-243	Avg Concentration: 2.0374E+001 Ci Low Limit Concent: Upper Limit Concent:
Barium-137m	Avg Concentration: 1.0571E+008 Ci Low Limit Concent: Upper Limit Concent:
Cadmium-113m	Avg Concentration: 8.0650E+003 Ci Low Limit Concent: Upper Limit Concent:
Carbon-14	Avg Concentration: 4.0858E-003 Ci Low Limit Concent: Upper Limit Concent:
Cerium-144	Avg Concentration: 4.6087E+005 Ci Low Limit Concent: Upper Limit Concent:
Cesium-134	Avg Concentration: 2.6987E+006 Ci Low Limit Concent: Upper Limit Concent:
Cobalt-60	Avg Concentration: 1.1365E-006 Ci Low Limit Concent: Upper Limit Concent:
Curium-242	Avg Concentration: 3.2307E+001 Ci Low Limit Concent: Upper Limit Concent:
Curium-243	Avg Concentration: 6.8136E+000 Ci Low Limit Concent: Upper Limit Concent:
Curium-244	Avg Concentration: 3.2307E+001 Ci Low Limit Concent: Upper Limit Concent:
Curium-245	Avg Concentration: 1.9845E-002 Ci Low Limit Concent: Upper Limit Concent:

Curium-246	Avg Concentration: 5.3619E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 1.0908E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 2.7357E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 1.7866E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 3.3732E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 8.5857E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 7.6886E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 2.2259E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 6.7535E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 5.6357E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 1.5786E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 3.8392E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 3.0174E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.2114E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.8299E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 7.1937E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 3.0451E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 8.0061E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 7.6167E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 1.5309E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 2.3295E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 1.0936E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 9.4297E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 9.1484E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 1.0989E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 1.8962E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 3.5655E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 3.5472E-007 Ci	Low Limit Concent:	Upper Limit Concent:

Tin-126	Avg Concentration: 3.0124E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 4.1239E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 5.2262E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 4.2910E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 3.4795E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 6.9136E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 5.1005E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 1.0989E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 1.8684E+003 Ci	Low Limit Concent:	Upper Limit Concent:

Idaho - Spent Nuclear Fuel - INTEC Dry Aluminum Based SNF	STREAM CODE: 00738
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
Irrad. Fuel Storage INTEC-603	100

Source Reactor	% of Stream Quantity
ARMF/CFRMF	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	INTEC Dry Aluminum Based SNF
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 1.0131E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 1.7950E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 1.9708E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 8.6676E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 2.6472E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.8835E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 3.3739E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Cerium-144	Avg Concentration: 5.1935E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 1.7871E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 1.3156E-007 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-242	Avg Concentration: 1.6285E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-243	Avg Concentration: 2.9256E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-244	Avg Concentration: 1.6285E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-245	Avg Concentration: 8.4007E-004 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-246	Avg Concentration: 2.2697E-005 Ci      Low Limit Concent:      Upper Limit Concent:
Europium-154	Avg Concentration: 9.4153E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Europium-155	Avg Concentration: 1.0196E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Hydrogen-3	Avg Concentration: 6.4554E+004 Ci      Low Limit Concent:      Upper Limit Concent:

Iodine-129	<b>Avg Concentration:</b> 8.5071E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 2.0133E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 6.9141E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 1.4637E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.9795E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 1.4646E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 3.8917E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.8545E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.1101E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 8.6044E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 8.4725E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 3.1663E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 5.7639E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 4.9915E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 6.1314E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 4.1184E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 2.8505E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 3.3895E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 2.5989E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 2.3786E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 2.7534E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 5.0629E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.5898E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 8.6446E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 7.7229E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 4.6276E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 3.8112E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.8023E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Uranium-235	Avg Concentration: 1.6010E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 1.4556E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 2.1565E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 2.7534E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 5.0512E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Idaho - Spent Nuclear Fuel - Navy SNF	STREAM CODE: 00746
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Stream Fuel Types
Naval SNF

Storage Facility	% of Stream Quantity
Fuel Storage Area INTEC-666	100

Source Reactor	% of Stream Quantity
Naval Reactor	100.00

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - SNL SNF	STREAM CODE: 02293
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Source Reactor	% of Stream Quantity
Annular Core Pulsed Reactor	
Annular Core Research Rx	
BR-2 & 3 Reactor (Belgium)	
EBR-II	
Sandia Pulsed Reactor II	
Sandia Pulsed Reactor III	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - SRS SNF

**STREAM CODE:** 02295

Source Reactor	% of Stream Quantity
Carolinas-VirginiaTube Rx	
Commercial (Misc)	
DRESDEN-1 Reactor	
EBR-II	
Elk River Reactor	
Exp Boiling Water Rx	
Gas-Cooled Rx Experiment	
H. B. Robinson 2	
Heat Transfer Reactor Exp	
Hvy Water Components Test	
Mobile Low Pwr Plant No 1	
Naval Reactor	
OakRidge Research Reactor	
Saxton Nuc Exp Rx Project	
Shippingport PWR	
Sodium Reactor Experiment	
Special Pwr Excur Rx Test	
Vallecitos Boiling Water	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - ORR SNF	STREAM CODE: 02297
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Source Reactor	% of Stream Quantity
Aqueous Homogeneous Suspen. Rx	
Commercial (Misc)	
EBR-II	
Peach Bottom Unit 1	
Various Test Reactors	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Foreign Research Reactor

**STREAM CODE:** 02299

Source Reactor	% of Stream Quantity
Bandung TRIGA II	
Bangkok (TRR-1/M-1)	
Bolo Hertzonte (IPR-RI Brazil)	
Dhaka	
Heidelberg	
Imperial Chemical Industries	
Ljubljana	
MAINZ	
Mushashi Institute	
NSRR-TOKAI	
PAVIA	
Philippine Res. Rx (PRR-1)	
Pitesti	
Rikkyo Univ.	
Salazar	
THOR	
TRICO I	
TRICO II	
TRIGA PUSPATI (RPT)	
TRIGA-Vienna	
Tech. Research Centre (FIR-1)	
YOGYAKATTA	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - WVDP SNF	STREAM CODE: 02303
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Source Reactor	% of Stream Quantity
Big Rock Point	
Robert E. Ginna	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - INTEC EBR II Metallic Sodium Bonded	STREAM CODE: 02305
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Stream Fuel Types
DOE Test SNF SST clad
DOE Test SNF-Not SST or Zirc clad

Storage Facility	% of Stream Quantity
Fuel Storage Area INTEC-666	100
Irrad. Fuel Storage INTEC-603	0

Source Reactor	% of Stream Quantity
EBR-II	99.67
Engineering Test Reactor	0.33

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	INTEC EBR II Metallic Sodium Bonded
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 2.4271E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 1.2507E+006 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 3.6353E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 1.2484E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Antimony-125	Avg Concentration: 4.3240E+006 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 1.8063E+009 Ci      Low Limit Concent:      Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.7232E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 6.2822E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Cerium-144	Avg Concentration: 1.2172E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 1.4179E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 2.8903E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 1.9094E+009 Ci      Low Limit Concent:      Upper Limit Concent:
Chlorine-36	Avg Concentration: 3.7944E-003 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 8.6836E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-242	Avg Concentration: 2.9922E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-243	Avg Concentration: 1.5549E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-244	Avg Concentration: 2.9922E+002 Ci      Low Limit Concent:      Upper Limit Concent:

Curium-245	Avg Concentration: 2.5611E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 1.7463E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.8279E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 3.0697E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 8.1099E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 5.0654E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 6.3067E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 3.9341E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 1.2553E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 9.9119E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 7.9983E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 1.0690E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 1.5022E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 2.8580E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 1.1688E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 4.1744E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 1.5903E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 3.6008E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 2.0417E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 3.5600E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 3.0423E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 1.5205E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 1.0779E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 7.0130E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 6.4368E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.6541E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 2.0133E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 8.7755E+006 Ci	Low Limit Concent:	Upper Limit Concent:

Selenium-79	<b>Avg Concentration:</b> 1.0832E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.8157E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 3.5375E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.1196E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.1369E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 9.6952E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.0924E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.8325E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.5408E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.0293E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.2975E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 5.5509E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.8161E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 5.5765E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Dry Graphite (CPP-749)	STREAM CODE: 02586
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Stream Fuel Types
Graphite type SNF

Storage Facility	% of Stream Quantity
Underground Str Fac INTEC-749	100

Source Reactor	% of Stream Quantity
Peach Bottom Unit 1	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Dry Graphite (CPP-749)		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 1.5235E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 1.4248E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 7.3136E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 7.0876E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 2.0131E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 1.4193E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 5.7041E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.1484E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 6.9785E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 3.9394E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.3946E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.9641E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 7.8525E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 8.0953E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 2.4867E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 2.6411E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.5575E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 9.8784E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Plutonium-239	<b>Avg Concentration:</b> 2.2129E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.7273E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 1.6127E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 2.2766E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 2.5878E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 5.0283E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 1.2824E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.3659E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 7.2404E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.1842E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 7.0947E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.3452E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 6.6904E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.4049E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.3331E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.6345E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 9.1858E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 3.8041E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 3.4435E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Repackaged Dry Graphite

STREAM CODE: 02688

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Packaged Commercial

STREAM CODE: 03708

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - SNF Requiring Conditioning	STREAM CODE: 03887
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Stream Fuel Types
Commerical type SNF
DOE Test SNF SST clad
DOE Test SNF Zirc clad

Storage Facility	% of Stream Quantity
Materials Test RX Canal TRA603	100
Power Burst Facility PER-620	0

Source Reactor	% of Stream Quantity
Power Burst Facility	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	SNF Requiring Conditioning		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 7.2692E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 3.4573E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 5.7259E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 1.5184E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Antimony-125	Avg Concentration: 1.6148E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 5.1168E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.3920E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 9.7955E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 2.5480E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 3.4126E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 3.5904E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 5.4089E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 1.2794E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 9.9652E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 4.7199E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 8.5944E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 4.7199E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Curium-245	<b>Avg Concentration:</b> 1.1390E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 2.2977E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 6.0063E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 9.9758E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.0672E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 1.5801E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 3.2806E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 5.4630E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 1.4193E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 2.9562E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 3.5219E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 5.8667E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 6.9385E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.5208E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 2.8309E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.1490E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.9463E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.3368E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 5.7648E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 3.2117E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.6440E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 1.7085E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 1.6521E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.4107E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 1.5236E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 1.0957E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 4.8640E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 3.1779E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Selenium-79	<b>Avg Concentration:</b> 4.2637E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 3.7310E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.3574E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 3.0266E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.5895E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 8.0729E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.4406E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 5.8490E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.0223E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.8005E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.6889E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 3.2801E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 3.7322E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 2.0083E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Treat Epoxy SNF

STREAM CODE: 03888

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Domestic Research Reactor

STREAM CODE: 04157

Source Reactor	% of Stream Quantity
Aerotest Rad Research Rx	
Arkansas Nuclear One, Unit 1	
Armed Forces Rad Res Inst	
Cornell University TRIGA	
DOW TRIGA Reactor	
Kansas St Univ Nuc Rx Fac	
McClellan Nuc Rad Cntr	
OCONEE	
Omaha Veterans Hospital	
Oregon State TRIGA Rx	
Penn St Breazeale Reactor	
Pulstar Buffalo	
Pulstar NC State Univ	
Reed Reactor Facility	
Texas A&M TRIGA	
Three Mile Island Unit 2	
U of AZ TRIGA Nuclear Rx	
U of CA Irvine TRIGA MKI	
U of IL TRIGA/LOPRA	
U of MD Training Rx	
U of TX TRIGA MARK II	
U of UT TRIGA Reactor	
U of WI TRIGA	
US Geologic Survey Rx	
WA State Univ TRIGA Reactor	

**No Information Provided for this Stream**



Idaho - Spent Nuclear Fuel - Treated Fermi Blanket

STREAM CODE: 04158

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - General Atomics (GA)	STREAM CODE: 04435
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Source Reactor	% of Stream Quantity
GA-TRIGA MARK F	
OakRidge Research Reactor	
Various Test Reactors	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Fermi Blanket	STREAM CODE: 04451
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Underground Str Fac INTEC-749	100

Source Reactor	% of Stream Quantity
Enrico Fermi Atomic Power Plt	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Fermi Blanket		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 1.0165E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 9.8502E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 1.3346E-008 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 8.7038E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 1.9130E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 5.3000E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 3.4609E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 1.2276E-007 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 3.0127E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 7.1717E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 2.0222E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 8.7962E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 2.0926E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 3.0235E-028 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 2.2653E-008 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 3.0235E-028 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 3.3903E-015 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 1.1097E-018 Ci	Low Limit Concent: Upper Limit Concent:

Curium-247	Avg Concentration: 5.3923E-026 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.2167E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 1.3738E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 4.6181E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 1.8212E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 8.7609E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 4.8898E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 7.1228E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 5.2755E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 1.0823E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 2.0445E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 8.6088E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 1.3211E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.0249E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.6581E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 3.1023E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.0823E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 5.6097E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 6.9734E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 7.2206E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 2.3468E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 2.3164E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 3.7135E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 4.2813E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 5.5010E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 9.8828E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 2.6277E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 1.7649E+006 Ci	Low Limit Concent:	Upper Limit Concent:

Techneium-99	<b>Avg Concentration:</b> 7.1445E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.7437E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 3.7760E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 5.9873E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 2.4272E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.5862E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 7.7992E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 2.7845E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.0135E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.2738E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.7655E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.0483E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - SNL Transferred to ANL-W	STREAM CODE: 04452
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Source Reactor	% of Stream Quantity
Annular Core Research Rx	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - LOFT/Commercial SNF	STREAM CODE: 31672
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Stream Fuel Types
Commerical type SNF

Storage Facility	% of Stream Quantity
TAN Hot Shop TAN-607	100

Source Reactor	% of Stream Quantity
Commercial (Misc)	8.43
DRESDEN-1 Reactor	4.53
H. B. Robinson 2	6.78
Haddem Neck	10.67
LOFT (Loss of fluid test)	59.92
Peach Bottom Unit 2	9.66

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	LOFT/Commercial SNF		
	Isotopes		
	Actinium-227	Avg Concentration: 8.4345E-005 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 4.0722E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 6.7441E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 1.7886E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 1.0717E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 5.9743E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 1.6340E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 1.1438E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 3.4941E-005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 7.8089E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 4.2014E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 6.3152E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 1.4848E-001 Ci	Low Limit Concent: Upper Limit Concent:

Cobalt-60	<b>Avg Concentration:</b> 1.3418E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 5.5522E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 1.0126E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 5.5522E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 1.3384E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 2.7036E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 7.0528E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 1.1631E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.2119E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 1.8457E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 3.8460E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 1.1102E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 1.6360E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 3.2439E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 4.0839E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 2.5352E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 2.7943E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.7818E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 3.2707E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.3521E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 2.2636E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.9258E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 6.7895E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 3.7746E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.9364E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 5.9151E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 1.9055E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.5515E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Radium-228	<b>Avg Concentration:</b> 1.7714E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 7.3965E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 5.6917E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 3.7003E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 4.9885E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 4.3423E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.5886E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 3.3580E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.8340E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 9.4793E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.6917E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 6.8149E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.2815E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 2.0485E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 3.1250E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 3.8619E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 4.3437E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 2.3475E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Idaho - Spent Nuclear Fuel - Dry Stored LOFT/Comm SNF

STREAM CODE: 31682

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - Treated Epoxy SNF

STREAM CODE: 31703

**No Information Provided for this Stream**

<b>STATE:</b> Idaho	<b>PROGRAM:</b> Nuclear Energy
<b>SITE:</b> Idaho	<b>OPERATIONS OFFICE:</b> Idaho Operations Office

Idaho - Spent Nuclear Fuel - ANL-W SNF	<b>STREAM CODE:</b> 02301
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Source Reactor	% of Stream Quantity
BER-3	
EBR-II	
Engineering Test Reactor	
Fast Flux Test Facility	
GA-TRIGA MARK F	
Neutron Rad Facility INEL	
Puerto Rico Nuclear Center	
Surry Power Reactor 1 & 2	
Transient Reactor Test	
Various LW Test Reactors	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - TRA ATR transfers to SRS

STREAM CODE: 04135

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - ANL-E SNF (CP-5 Converter)	STREAM CODE: 04446
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Source Reactor	% of Stream Quantity
Chicago Pile 5	
Commercial (Misc)	
DOE Fast Misc	

**No Information Provided for this Stream**

Idaho - Spent Nuclear Fuel - TRA ATR Transfers to TBD	STREAM CODE: 07307
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<b>Stream Fuel Types</b>
Alum based SNF

<b>Source Reactor</b>	<b>% of Stream Quantity</b>
Advanced Test Reactor	

ISOTOPE AND CONTAMINANT PROFILES

<b>% of Stream</b>	<b>TOTAL CURIES:</b>
100	TRA ATR Transfers to TBD

<b>Isotopes</b>			
Actinium-227	<b>Avg Concentration:</b> 1.7201E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-241	<b>Avg Concentration:</b> 5.4390E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 5.5381E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-243	<b>Avg Concentration:</b> 2.8869E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Barium-137m	<b>Avg Concentration:</b> 1.4898E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cadmium-113m	<b>Avg Concentration:</b> 1.1371E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 4.5526E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cerium-144	<b>Avg Concentration:</b> 6.5183E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-134	<b>Avg Concentration:</b> 3.8215E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cobalt-60	<b>Avg Concentration:</b> 1.6073E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 4.5767E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 9.6542E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 4.5767E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 2.8119E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 7.5975E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 1.5439E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 3.8429E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 1.5583E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Iodine-129	<b>Avg Concentration:</b> 4.7535E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 1.2105E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 1.0881E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 3.1520E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 9.5069E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 7.9403E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 2.2249E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 5.4390E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 4.2687E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.7153E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 2.5926E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.0192E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 4.2982E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 1.1173E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.0782E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.1563E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 3.2939E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 1.5388E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.3280E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.2889E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.5487E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.6710E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 5.0480E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 4.9998E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 4.2446E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 5.8327E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 7.3993E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 6.0764E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Uranium-235	Avg Concentration: 4.8766E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 9.7533E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 7.1556E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 1.5487E+009 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 2.6317E+004 Ci	Low Limit Concent:	Upper Limit Concent:

<b>STATE:</b> New Mexico	<b>PROGRAM:</b> Office of Defense Programs
<b>SITE:</b> Sandia-NM	<b>OPERATIONS OFFICE:</b> Albuquerque Operations Office

Sandia-NM - Spent Nuclear Fuel - SNL SNF1 (STAR Experiments/ACRR)	<b>STREAM CODE:</b> 30099
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Stream Fuel Types
Alum based SNF DOE Test SNF SST clad

Source Reactor	% of Stream Quantity
Annular Core Research Rx	

**ISOTOPE AND CONTAMINANT PROFILES**

% of Stream	TOTAL CURIES:
100	SNL SNF1 (STAR Experiments/ACRR)
	<b>Isotopes</b>
	Actinium-227 <b>Avg Concentration:</b> 1.2290E-002 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Americium-241 <b>Avg Concentration:</b> 2.9843E+004 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Americium-242m <b>Avg Concentration:</b> 2.8678E+001 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Americium-243 <b>Avg Concentration:</b> 5.5246E+001 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Antimony-125 <b>Avg Concentration:</b> 1.2833E+004 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Barium-137m <b>Avg Concentration:</b> 1.1628E+007 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Cadmium-113m <b>Avg Concentration:</b> 1.0339E+003 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Carbon-14 <b>Avg Concentration:</b> 8.0104E+002 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Cerium-144 <b>Avg Concentration:</b> 5.8274E+002 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Cesium-134 <b>Avg Concentration:</b> 3.8176E+003 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Cesium-135 <b>Avg Concentration:</b> 2.0116E+002 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Cesium-137 <b>Avg Concentration:</b> 1.2292E+007 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Chlorine-36 <b>Avg Concentration:</b> 1.7503E+001 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Cobalt-60 <b>Avg Concentration:</b> 1.1119E+006 Ci <b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>

Curium-242	<b>Avg Concentration:</b> 2.3610E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 3.1530E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 2.3610E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 4.0664E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 8.2124E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-247	<b>Avg Concentration:</b> 2.1423E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 3.2044E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 2.2789E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 3.0306E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iodine-129	<b>Avg Concentration:</b> 4.6914E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Iron-55	<b>Avg Concentration:</b> 8.9330E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Krypton-85	<b>Avg Concentration:</b> 6.0011E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Lead-210	<b>Avg Concentration:</b> 3.0658E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Neptunium-237	<b>Avg Concentration:</b> 9.0032E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-59	<b>Avg Concentration:</b> 3.3713E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Nickel-63	<b>Avg Concentration:</b> 3.5693E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 3.2148E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 5.0522E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 4.2991E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.2604E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.5511E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.5254E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 4.2236E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 7.3177E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 2.5242E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 3.7191E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.4858E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 1.4391E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Ruthenium-106	<b>Avg Concentration:</b> 1.7203E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 2.0123E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.2735E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 8.2317E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.1448E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.7949E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 3.1090E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.5699E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 7.8406E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 3.1616E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 7.6005E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.8515E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 6.2482E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 7.9753E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 4.9897E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.1458E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 5.0137E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Sandia-NM - Spent Nuclear Fuel - SNL SNF2, Sodium Bonded (PNL Mixed Mat'l's)	STREAM CODE: 30100
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<b>Stream Fuel Types</b>
DOE Test SNF SST clad

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	SNL SNF2, Sodium Bonded (PNL Mixed Mat'l's)		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 1.2084E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 6.3415E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 1.8432E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 6.3299E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 2.1925E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 9.1584E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 8.7363E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 2.4284E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 6.1715E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 7.1891E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 1.4640E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 9.6811E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 5.5725E-026 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 4.3572E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 1.5172E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 7.8841E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 1.5172E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 1.2986E-002 Ci	Low Limit Concent: Upper Limit Concent:

Curium-246	Avg Concentration: 8.8543E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 9.2683E-010 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 1.5565E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 4.1120E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 2.5683E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 3.1974E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 1.9947E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 6.3646E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 5.0256E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 4.0554E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 5.3968E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 7.6124E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.4489E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 3.0366E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.1162E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 8.0633E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.8190E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.0352E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.8051E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 1.5426E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 7.7095E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 5.4141E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 3.5558E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 2.4515E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 8.3871E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 1.0207E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 4.4474E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 5.4916E+001 Ci	Low Limit Concent:	Upper Limit Concent:

Strontium-90	<b>Avg Concentration:</b> 9.2058E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.7935E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.0747E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 4.9388E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 4.9146E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 5.5390E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 9.2879E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 7.8124E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.5299E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 6.5786E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 2.5359E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 9.2081E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 2.8273E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

<b>STATE:</b> New York	<b>PROGRAM:</b> Office of Environmental Management
<b>SITE:</b> WestValley	<b>OPERATIONS OFFICE:</b> Ohio Field Office

WestValley - Spent Nuclear Fuel - Spent Nuclear Fuel	<b>STREAM CODE:</b> 00273
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Stream Fuel Types
Commerical type SNF

Storage Facility	% of Stream Quantity
Fuel Receiving & Storage Fac	100

Source Reactor	% of Stream Quantity
Big Rock Point	42.52
Robert E. Ginna	57.48

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Spent Nuclear Fuel		
<b>Isotopes</b>			
Actinium-227	<b>Avg Concentration:</b> 1.5337E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-241	<b>Avg Concentration:</b> 7.4050E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 1.2264E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-243	<b>Avg Concentration:</b> 3.2525E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Antimony-125	<b>Avg Concentration:</b> 1.9488E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Barium-137m	<b>Avg Concentration:</b> 1.0864E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cadmium-113m	<b>Avg Concentration:</b> 2.9712E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 2.0800E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cerium-144	<b>Avg Concentration:</b> 6.3538E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-134	<b>Avg Concentration:</b> 1.4200E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-135	<b>Avg Concentration:</b> 7.6400E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-137	<b>Avg Concentration:</b> 1.1484E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Chlorine-36	<b>Avg Concentration:</b> 2.7000E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Cobalt-60	Avg Concentration: 2.4400E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 1.0096E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 1.8413E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 1.0096E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.4337E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 4.9162E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.2825E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.1150E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 2.2038E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 3.3563E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 6.9937E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 2.0188E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 2.9750E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 5.8988E-009 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 7.4262E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 4.6100E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 5.0813E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 3.2400E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 5.9475E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.4588E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 4.1163E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 7.1388E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.2346E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 6.8638E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 3.5213E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 1.0756E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 3.4650E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 2.8212E-008 Ci	Low Limit Concent:	Upper Limit Concent:

Radium-228	<b>Avg Concentration:</b> 3.2213E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 1.3450E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 1.0350E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 6.7287E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 9.0712E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 7.8963E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.8887E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 6.1063E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 3.3350E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.7237E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 3.0763E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.2392E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 4.1487E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.7250E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 5.6825E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 7.0225E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 7.8988E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 4.2688E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

<b>STATE:</b> South Carolina	<b>PROGRAM:</b> Office of Environmental Management
<b>SITE:</b> Savannah	<b>OPERATIONS OFFICE:</b> Savannah River Operations Office

Savannah - Spent Nuclear Fuel - Group A-"At Risk" plus	<b>STREAM CODE:</b> 01074
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
ARMF/CFRMF	0.00
SRS Production Reactors	67.35
Sodium Reactor Experiment	32.65

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Group A-"At Risk" plus
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 2.3295E-003 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 1.5629E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 2.1219E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 4.0413E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Antimony-125	Avg Concentration: 2.1888E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 2.0149E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.5619E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 2.3369E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Cerium-144	Avg Concentration: 8.7624E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 5.1374E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 8.5812E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 1.2899E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Chlorine-36	Avg Concentration: 3.0326E-002 Ci      Low Limit Concent:      Upper Limit Concent:

Cobalt-60	Avg Concentration: 2.7406E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 1.7493E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 2.1979E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 1.7493E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.7714E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 5.5321E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.4405E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.0992E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 5.1908E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 3.9792E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 6.4686E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 2.2675E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 1.6305E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 2.1252E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 4.3206E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 5.1780E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 5.7073E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.3144E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 7.7476E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 3.2670E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 7.7739E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 6.5402E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 3.6925E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 4.2561E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 5.3252E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 5.7781E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 1.5058E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.7662E-006 Ci	Low Limit Concent:	Upper Limit Concent:

Radium-228	<b>Avg Concentration:</b> 3.9080E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 4.4280E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 2.0802E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.7928E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.7429E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 2.0907E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 3.6231E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 7.4719E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 4.4180E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 5.8996E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 8.1863E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.1339E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 8.6344E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 6.5598E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.3175E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.7507E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 2.0908E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 3.5857E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Savannah - Spent Nuclear Fuel - Oxides & Silicides (Failed Fuel)	STREAM CODE: 01075
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
OakRidge Research Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Oxides & Silicides (Failed Fuel)		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 7.0653E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 2.2341E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 2.2748E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 1.1858E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 6.1193E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 4.6706E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 1.8700E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 2.6774E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 1.5697E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 6.6022E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 1.8799E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 3.9655E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 1.8799E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 1.1550E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 3.1207E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 6.3415E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 1.5785E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 6.4009E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Iodine-129	Avg Concentration: 1.9525E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 4.9720E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 4.4693E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 1.2947E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 3.9050E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 3.2615E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 9.1388E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.2341E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.7534E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 7.0455E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.0649E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 4.1866E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 1.7655E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 4.5892E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 4.4286E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 8.8572E-009 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.3530E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 6.3206E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 5.4549E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 5.2943E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 6.3613E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 1.0971E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 2.0735E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 2.0537E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 1.7435E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 2.3958E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 3.0393E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 2.4959E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-235	Avg Concentration: 2.0031E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 4.0062E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 2.9392E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 6.3613E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 1.0810E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Savannah - Spent Nuclear Fuel - Sterling Forest Oxide (powder in cans-D1)	STREAM CODE: 01076
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
Cintichem	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Sterling Forest Oxide (powder in cans-D1)		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 8.4557E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 1.4968E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 2.7818E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 3.8332E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 1.9362E+008 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 1.3574E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 2.9544E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 2.8542E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 5.6753E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 7.3454E-007 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 2.2977E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 3.6612E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 2.2977E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 5.9529E-007 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 9.6811E-009 Ci	Low Limit Concent: Upper Limit Concent:
	Europium-154	Avg Concentration: 4.2231E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Europium-155	Avg Concentration: 7.9548E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Hydrogen-3	Avg Concentration: 5.6753E+005 Ci	Low Limit Concent: Upper Limit Concent:

Iodine-129	Avg Concentration: 6.2311E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 1.4522E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 3.2212E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 4.5901E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.4908E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 1.0791E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.8373E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.0195E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.6133E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 3.0600E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 6.3983E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 1.0683E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 3.9388E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 4.0952E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 2.5591E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 3.0546E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.6410E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 2.5760E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 1.9362E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 1.7528E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 2.0141E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 3.7499E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 9.5118E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 6.2873E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 5.6753E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 2.5367E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 1.4075E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 8.6791E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-235	Avg Concentration: 1.2795E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 1.0236E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 1.7081E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 2.0141E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 3.7499E+003 Ci	Low Limit Concent:	Upper Limit Concent:

Savannah - Spent Nuclear Fuel - MTRE Type AI SNF (FRR/DRR)

STREAM CODE: 01077

**Data Category: Spent Nuclear Fuel**

**Stream Characteristic Detail (SNF-10)**

Stream Fuel Types
Alum based SNF
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
ASTRA	3.57
Argonaut Reactor (Brazil)	0.00
Argonne Thermal Source Rx	0.15
BR-2 & 3 Reactor (Belgium)	0.55
Bangkok (TRR-1/M-1)	0.22
Berlin Experimental Rx. BER-2)	0.00
Biological Res Rx (JANUS)	0.13
Brookhaven Medical Res Rx	0.00
Bulk Shielding Reactor	0.32
Canadian Deuterium Rx	2.27
Cintichem	1.30
Denmark (DR-3)	5.01
FMRB	0.54
FRG-1	4.04
FRG-2	0.00
FRJ-2	1.09
FRM	0.32
Ford Nuclear Reactor	0.00
GA SIWABESSY MPR	2.36
GE Nuclear Test Reactor	0.00
Greece Research Rx Democritus	0.67
High Flux Beam Reactor	12.92
High Flux Reactor (HIFAR)	1.54
High Flux Reactor-Petten	0.96
IAN-R1	0.14
IEA-R1	3.05
Iowa St Univ Argonaut Reactor	0.16
Israel Research Reactor-IRR-1	0.00
JEN-1 MOD	0.74
Japan Research Reac JRR-3(M)	0.00
Japanese Mat Test Rx (JMTR)	10.21

Japanese Matl Test Rx C(JMTRC)	0.00
Japanese Research Rx (JRR-2)	3.04
Japanese Research Rx (JRR-4)	0.00
Kyoto University (KUR)	0.77
LA REINA, RECH-1	0.37
Low Flux Reactor (LFR)	0.00
MINERVE	0.00
MIT Research Reactor	1.73
MOATA ARGONUAT	0.00
NRCRR	0.00
National Inst of Std & Tech.	1.55
Neely Nuclear Research Reactor	0.20
Neriede - France	1.62
ORPHEE	0.00
OSIRIS	0.00
OakRidge Research Reactor	2.40
Ohio St Research Reactor	0.16
Omega West Reactor	0.69
PARR	0.00
PTR	0.48
Philippine Res. Rx (PRR-1)	1.05
Purdue University Reactor	0.00
R-2 Research Reactor	11.25
RA-3	1.38
RA-6	0.00
RA-O Cordoba University	0.00
RANA	2.04
RHF(R HAUT Flux France)	0.00
RP-1	1.34
RP-10	0.00
RSG-GAS-30	0.00
RU-1	0.10
RV-1 Venezuelan Reactor	1.77

Rhode Island Nuc Science Ctr	0.39
SAFARI-1	0.00
SAPHIR - Switzerland	5.12
SAR-GRAZ (ARGONUAT)	0.00
SCARABEE	0.00
SILOE/MELUSINE	0.00
SILOETTE	0.00
Slowpoke (Jamaica)	0.00
Slowpoke-Alberta	0.00
Slowpoke-Halifax	0.00
Slowpoke-Kanata at AECL	0.00
Slowpoke-Montreal	0.00
Slowpoke-Saskatchewan	0.00
Slowpoke-Toronto	0.04
Strasbourg-Cronenbourg	0.00
THOR	0.19
TR-2	0.00
TTR-1 TOSHIBA Test Reactor	0.00
Taiwan THAR (ARGONAUT)	0.00
Taiwan ZPRL	1.07
U of FL Training Rx	0.00
U of MA Lowell Nuc Rx	0.00
U of MO Research Rx Columbia	8.26
U of MO Rolla Reactor	0.22
U of VA Reactor	0.31
ULYSSE Reactor (ARGONAUT)	0.00
UTR 300 (Univ. of Glasgow)	0.00
UTR-10 KINKI	0.00
University of DELFT (HOR)	0.18
Worcester Poly Inst Rx	0.00
ZPRL	0.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	MTRE Type AI SNF (FRR/DRR)		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 3.5347E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 1.2191E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 9.9996E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 7.1922E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 2.6768E+009 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 2.0473E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 5.3180E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 1.1352E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 6.4166E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 4.3936E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 8.2633E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 1.8744E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 8.2633E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 5.7563E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 2.1196E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.6227E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 7.2654E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 9.4532E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 8.5358E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 2.1626E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.7816E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 5.2291E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.7266E+004 Ci	Low Limit Concent:	Upper Limit Concent:

Niobium-94	<b>Avg Concentration:</b> 1.4402E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 4.1594E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 8.9435E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 9.7257E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 4.4556E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 5.8437E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 2.8652E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 7.6213E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 2.1764E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.7613E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 3.8404E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 5.8758E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 2.8186E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 2.3352E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 2.3211E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 2.7787E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 4.8244E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 8.2348E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 8.8418E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 7.6987E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 9.6348E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.2086E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 9.9124E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 9.0664E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.7088E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 3.4587E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 2.7787E+009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 4.7514E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>



Savannah - Spent Nuclear Fuel - Oxides & Silicides (Intact Fuel)	STREAM CODE: 01078
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Stream Fuel Types
Alum based SNF
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
Ford Nuclear Reactor	0.00
Iowa St Univ Argonaut Reactor	10.70
NRU	0.00
NRX	0.00
OakRidge Research Reactor	61.65
PTR	0.00
RHF(R HAUT Flux France)	14.21
SEOUL 1 & 2	0.00
SRS Production Reactors	0.10
Tower Shielding Rx No II	0.00
U of VA Reactor	13.35

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Oxides & Silicides (Intact Fuel)		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 1.4612E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 2.9615E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 1.2983E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 1.2532E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Antimony-125	Avg Concentration: 1.5590E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 5.7409E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 4.3074E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 6.0025E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 1.8523E+005 Ci	Low Limit Concent:	Upper Limit Concent:

Cesium-134	Avg Concentration: 7.5527E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 6.1120E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 9.1870E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 2.1600E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 1.9521E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 1.0737E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 2.1698E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 1.0737E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 6.0921E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 2.4420E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.0260E-010 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 3.4300E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 1.9603E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 1.1593E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 1.8307E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 1.6150E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 4.4870E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 2.0190E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 5.8868E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 3.6880E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 4.0650E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 3.9873E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 3.1943E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 9.6194E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 8.6795E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 3.2613E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.5494E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.4311E+006 Ci	Low Limit Concent:	Upper Limit Concent:

Plutonium-242	<b>Avg Concentration:</b> 7.0497E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Promethium-147	<b>Avg Concentration:</b> 1.4778E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 7.5736E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 1.9234E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 8.2346E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 1.0431E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 6.8054E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 4.9164E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 5.0632E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 5.9423E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.0711E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 8.7048E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 1.8014E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.6958E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.1706E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.3003E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.0186E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 2.6097E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 3.2425E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 2.4230E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 5.9423E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.0556E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Savannah - Spent Nuclear Fuel - FRR Targets (Group D2)	STREAM CODE: 01079
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Source Reactor	% of Stream Quantity
FRR	

**No Information Provided for this Stream**

Savannah - Spent Nuclear Fuel - Higher Actinide Targets (Group E)

STREAM CODE: 01080

**No Information Provided for this Stream**

Savannah - Spent Nuclear Fuel - SS/Zircalloy SNF to INEEL	<b>STREAM CODE:</b> 01081
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Stream Fuel Types
Commerical type SNF
DOE Test SNF SST clad
DOE Test SNF Zirc clad
Naval SNF

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
Carolinas-VirginiaTube Rx	0.33
Commercial (Misc)	0.06
DRESDEN-1 Reactor	12.57
EBR-II	0.01
Elk River Reactor	24.91
Exp Boiling Water Rx	49.30
Gas-Cooled Rx Experiment	0.30
H. B. Robinson 2	0.00
Heat Transfer Reactor Exp	0.02
Hvy Water Components Test	9.11
Mobile Low Pwr Plant No 1	0.28
Naval Reactor	0.00
OakRidge Research Reactor	0.02
Saxton Nuc Exp Rx Project	1.90
Shippingport PWR	0.08
Sodium Reactor Experiment	0.22
Special Pwr Excur Rx Test	0.05
Vallecitos Boiling Water	0.83

**ISOTOPE AND CONTAMINANT PROFILES**

% of Stream	TOTAL CURIES:		
100	SS/Zircalloy SNF to INEEL		
	<b>Isotopes</b>		
	Actinium-227	<b>Avg Concentration:</b> 1.0180E+000 Ci	<b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Americium-241	<b>Avg Concentration:</b> 7.5964E+005 Ci	<b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>
	Americium-242m	<b>Avg Concentration:</b> 1.2069E+003 Ci	<b>Low Limit Concent:</b> <b>Upper Limit Concent:</b>

Americium-243	Avg Concentration: 3.1739E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Antimony-125	Avg Concentration: 8.4552E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Barium-137m	Avg Concentration: 8.4804E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Cadmium-113m	Avg Concentration: 9.1727E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 2.0149E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Cerium-144	Avg Concentration: 3.1216E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 1.3950E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 1.2403E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 4.4651E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 2.6246E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 2.5283E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 9.9376E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 1.7814E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 9.9376E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.3518E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 4.7427E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.2366E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 1.1910E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 2.7965E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 1.3163E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 3.1351E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 7.5613E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 5.9625E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 2.4715E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.0031E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 2.3274E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 3.1398E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.0814E+003 Ci	Low Limit Concent:	Upper Limit Concent:

Niobium-94	Avg Concentration: 5.7320E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 3.7608E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 8.2908E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 9.2084E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.3118E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 8.3944E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 3.5142E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 1.5284E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 1.6860E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.3751E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 1.0315E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.2315E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 8.9187E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 5.8105E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 6.4544E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 8.3718E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 1.6614E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 3.8851E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 1.0674E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 4.5832E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 3.0330E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 1.7217E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 2.7735E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 1.8924E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 5.5645E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 7.4465E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 8.3729E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 2.1432E+003 Ci	Low Limit Concent:	Upper Limit Concent:



Savannah - Spent Nuclear Fuel - SNF to Repository

STREAM CODE: 03565

**No Information Provided for this Stream**

Savannah - Spent Nuclear Fuel - AI SNF from INEEL

STREAM CODE: 04113

Source Reactor	% of Stream Quantity
ARMF/CFRMF	
Advanced Test Reactor	
High Flux Beam Reactor	
OakRidge Research Reactor	
U of MO Rolla Reactor	
U of WA ARGONANT	

**No Information Provided for this Stream**

Savannah - Spent Nuclear Fuel - HFIR SNF from Oak Ridge	STREAM CODE: 04114
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
SRS Basins	100

Source Reactor	% of Stream Quantity
High Flux Isotope Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	HFIR SNF from Oak Ridge		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 2.7619E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 8.7333E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 8.8924E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 4.6354E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 2.3921E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 1.8258E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 7.3100E-004 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 1.0466E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 6.1361E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 2.5809E-007 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 7.3487E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 1.5501E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 7.3487E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 4.5150E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 1.2199E-004 Ci	Low Limit Concent: Upper Limit Concent:
	Europium-154	Avg Concentration: 2.4790E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Europium-155	Avg Concentration: 6.1705E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Hydrogen-3	Avg Concentration: 2.5022E+001 Ci	Low Limit Concent: Upper Limit Concent:

Iodine-129	Avg Concentration: 7.6325E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 1.9436E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.7471E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 5.0611E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.5265E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 1.2750E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 3.5724E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 8.7333E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 6.8542E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 2.7542E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 4.1628E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 1.6366E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 6.9015E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 1.7940E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.7312E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 3.4624E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 5.2890E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 2.4708E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 2.1324E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 2.0696E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 2.4867E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 4.2888E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 8.1055E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 8.0281E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 6.8155E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 9.3654E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 1.1881E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 9.7567E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-235	Avg Concentration: 7.8303E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 1.5661E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 1.1490E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 2.4867E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 4.2256E+002 Ci	Low Limit Concent:	Upper Limit Concent:

**STATE:** Tennessee

**PROGRAM:** Office of Environmental Management

**SITE:** Oak Ridge

**OPERATIONS OFFICE:** Oak Ridge Operations Office

Oak Ridge - Spent Nuclear Fuel - Bulk Shielding Reactor

**STREAM CODE:** 00257

**No Information Provided for this Stream**

Oak Ridge - Spent Nuclear Fuel - Oak Ridge Research Reactor

STREAM CODE: 00258

**No Information Provided for this Stream**

Oak Ridge - Spent Nuclear Fuel - Repackaged Al-Clad-SRS

STREAM CODE: 00262

**No Information Provided for this Stream**

Oak Ridge - Spent Nuclear Fuel - Repackaged SS, Zir, Graph SNF in Facility 7827	STREAM CODE: 00264
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Stream Fuel Types
Commerical type SNF
DOE Test SNF SST clad
DOE Test SNF-Not SST or Zirc clad
Graphite type SNF

Storage Facility	% of Stream Quantity
Bldg. 3525	26
Dry Storage Wells Bldg 7827	53
Dry Storage Wells Bldg 7829	10
Southwest Storage Area 6	11

Source Reactor	% of Stream Quantity
Aqueous Homogeneous Suspen. Rx	10.60
Commercial (Misc)	72.32
EBR-II	4.68
Peach Bottom Unit 1	11.74
Various Test Reactors	0.66

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	Repackaged SS, Zir, Graph SNF in Facility 7827
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 1.0065E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 8.8124E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 1.3535E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 3.6073E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Antimony-125	Avg Concentration: 2.7008E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Barium-137m	Avg Concentration: 1.2373E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Cadmium-113m	Avg Concentration: 1.3902E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 2.2715E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Cerium-144	Avg Concentration: 7.5430E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 8.8021E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 2.6263E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 1.3079E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Chlorine-36	Avg Concentration: 2.9618E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 3.1807E+002 Ci      Low Limit Concent:      Upper Limit Concent:

Curium-242	Avg Concentration: 1.1143E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 2.0079E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 1.1143E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.6572E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 5.3464E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.3930E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.1319E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 5.2650E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 3.5033E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 4.6691E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 2.4402E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 8.1019E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 6.2835E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 5.7647E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 7.1007E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 9.8599E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 2.1239E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 6.5065E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 5.2563E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 1.4328E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 9.9720E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.4665E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 9.6563E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 4.0102E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 9.4344E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 2.1298E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 4.4044E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 7.0919E-003 Ci	Low Limit Concent:	Upper Limit Concent:

Ruthenium-106	<b>Avg Concentration:</b> 1.0251E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 1.3599E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 6.1735E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 7.7004E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 1.2109E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.5068E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.3241E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 7.4397E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 7.8811E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 1.0109E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 7.7908E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 9.6064E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.9123E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 8.6623E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 7.9316E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.2112E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 3.9208E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Oak Ridge - Spent Nuclear Fuel - Tower Shielding Reactor Disposition Ready	STREAM CODE: 02895
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<b>Stream Fuel Types</b>
Alum based SNF

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Tower Shielding Reactor Disposition Ready		
<b>Isotopes</b>			
Actinium-227	<b>Avg Concentration:</b> 1.2490E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-241	<b>Avg Concentration:</b> 2.2110E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 4.1090E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-243	<b>Avg Concentration:</b> 5.6620E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Barium-137m	<b>Avg Concentration:</b> 2.8600E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cadmium-113m	<b>Avg Concentration:</b> 2.0050E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 4.3640E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cerium-144	<b>Avg Concentration:</b> 4.2160E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-134	<b>Avg Concentration:</b> 8.3830E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cobalt-60	<b>Avg Concentration:</b> 1.0850E-009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 3.3940E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 5.4080E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 3.3940E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 8.7930E-010 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-246	<b>Avg Concentration:</b> 1.4300E-011 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-154	<b>Avg Concentration:</b> 6.2380E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Europium-155	<b>Avg Concentration:</b> 1.1750E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Hydrogen-3	<b>Avg Concentration:</b> 8.3830E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Iodine-129	Avg Concentration: 9.2040E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 2.1450E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 4.7580E-010 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 6.7800E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 2.2020E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 1.5940E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 4.1910E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.9830E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 2.3830E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 4.5200E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 9.4510E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 1.5780E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 5.8180E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 6.0490E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 3.7800E-009 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 4.5120E-010 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 2.4240E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 3.8050E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 2.8600E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 2.5890E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 2.9750E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 5.5390E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 1.4050E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 9.2870E-010 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 8.3830E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 3.7470E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 2.0790E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 1.2820E-002 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-235	Avg Concentration: 1.8900E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 1.5120E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 2.5230E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 2.9750E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 5.5390E+000 Ci	Low Limit Concent:	Upper Limit Concent:

<b>STATE:</b> Tennessee	<b>PROGRAM:</b> Office of Science
<b>SITE:</b> Oak Ridge	<b>OPERATIONS OFFICE:</b> Oak Ridge Operations Office

Oak Ridge - Spent Nuclear Fuel - HFIR SNF	<b>STREAM CODE:</b> 04448
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Stream Fuel Types
Alum based SNF

Storage Facility	% of Stream Quantity
High Flux Isotope RX Bldg 7900	100

Source Reactor	% of Stream Quantity
High Flux Isotope Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	HFIR SNF

Isotopes			
Actinium-227	<b>Avg Concentration:</b> 5.5830E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-241	<b>Avg Concentration:</b> 9.8832E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-242m	<b>Avg Concentration:</b> 1.8367E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Americium-243	<b>Avg Concentration:</b> 2.5309E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Barium-137m	<b>Avg Concentration:</b> 1.2784E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cadmium-113m	<b>Avg Concentration:</b> 8.9624E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Carbon-14	<b>Avg Concentration:</b> 1.9507E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cerium-144	<b>Avg Concentration:</b> 1.8846E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cesium-134	<b>Avg Concentration:</b> 3.7472E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Cobalt-60	<b>Avg Concentration:</b> 4.8499E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-242	<b>Avg Concentration:</b> 1.5171E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-243	<b>Avg Concentration:</b> 2.4174E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-244	<b>Avg Concentration:</b> 1.5171E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Curium-245	<b>Avg Concentration:</b> 3.9305E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Curium-246	Avg Concentration: 6.3921E-009 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.7884E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 5.2523E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 3.7472E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 4.1142E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 9.5882E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 2.1268E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.0307E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 9.8429E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 7.1252E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 1.8734E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 1.3334E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.0652E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 2.0204E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 4.2246E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 7.0537E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 2.6006E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 2.7039E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.6897E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 2.0169E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.0835E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 1.7008E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 1.2784E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 1.1573E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 1.3298E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 2.4759E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 6.2803E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 4.1513E-007 Ci	Low Limit Concent:	Upper Limit Concent:

Tin-126	Avg Concentration: 3.7472E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 1.6749E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 9.2931E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 5.7305E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 8.4483E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 6.7586E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 1.1278E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Yttrium-90	Avg Concentration: 1.3298E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 2.4759E+003 Ci	Low Limit Concent:	Upper Limit Concent:

<b>STATE:</b> Washington	<b>PROGRAM:</b> Office of Environmental Management
<b>SITE:</b> Hanford	<b>OPERATIONS OFFICE:</b> Richland Operations Office

Hanford - Spent Nuclear Fuel - U Metal Matrix, Zirc Clad	<b>STREAM CODE:</b> 01484
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Stream Fuel Types
Hanford Production type SNF

Storage Facility	% of Stream Quantity
105 KE Basin	57
105 KW Basin	43

Source Reactor	% of Stream Quantity
N Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	U Metal Matrix, Zirc Clad
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 9.3388E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 2.5375E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 7.2069E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 3.7126E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 3.2862E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 1.4767E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 3.6190E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 4.8358E+008 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 4.2950E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-245	Avg Concentration: 4.6382E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-246	Avg Concentration: 6.1461E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Hydrogen-3	Avg Concentration: 9.3388E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Iodine-129	Avg Concentration: 2.9743E+002 Ci      Low Limit Concent:      Upper Limit Concent:

Krypton-85	Avg Concentration: 1.3831E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 6.8013E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.5046E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 1.8407E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 1.9967E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 4.1078E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 6.0733E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 6.7493E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 5.7613E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.1127E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 6.4997E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.8615E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 3.1303E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 1.2479E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.0400E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 9.2868E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 2.8599E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 7.7372E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 4.0558E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 3.6502E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 1.3623E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 9.2348E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 1.0919E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 7.0821E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 5.1686E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 4.3886E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 1.6743E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 6.3541E+003 Ci	Low Limit Concent:	Upper Limit Concent:

Uranium-238	Avg Concentration: 3.4526E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 1.9031E+004 Ci	Low Limit Concent:	Upper Limit Concent:

Hanford - Spent Nuclear Fuel - U Metal Matrix, Al Clad	STREAM CODE: 01485
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Stream Fuel Types
Hanford Production type SNF

Storage Facility	% of Stream Quantity
105 KE Basin	12
105 KW Basin	88

Source Reactor	% of Stream Quantity
Single Pass Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	U Metal Matrix, Al Clad
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 8.7461E-003 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 2.3764E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 6.7495E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 3.4770E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 3.0777E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 1.3830E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 3.3893E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 4.5289E+006 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 4.0224E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-245	Avg Concentration: 4.3438E-001 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-246	Avg Concentration: 5.7560E-002 Ci      Low Limit Concent:      Upper Limit Concent:
Hydrogen-3	Avg Concentration: 8.7461E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Iodine-129	Avg Concentration: 2.7855E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Krypton-85	Avg Concentration: 1.2954E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Lead-210	Avg Concentration: 6.3696E-008 Ci      Low Limit Concent:      Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.2822E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Nickel-59	Avg Concentration: 1.7239E+001 Ci      Low Limit Concent:      Upper Limit Concent:

Nickel-63	Avg Concentration: 1.8700E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 3.8471E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 5.6879E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 6.3209E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 5.3957E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.0421E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 6.0872E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.7434E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 2.9316E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 1.1687E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 9.7395E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 8.6974E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 2.6784E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 7.2462E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 3.7984E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 3.4186E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 1.2759E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 8.6487E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 1.0226E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 6.6326E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 4.8405E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 4.1101E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 1.5681E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 5.9508E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 3.2335E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 1.7823E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Hanford - Spent Nuclear Fuel - Unirradiated N Reactor Fuel	STREAM CODE: 01486
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Stream Fuel Types
Hanford Production type SNF

Storage Facility	% of Stream Quantity
105 KE Basin	86
105 KW Basin	14

Source Reactor	% of Stream Quantity
N Reactor	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Unirradiated N Reactor Fuel		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 2.5220E-004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 6.8528E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 1.9463E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 1.0026E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 8.8749E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 3.9881E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 9.7736E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 1.3060E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 1.1599E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 1.2526E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 1.6598E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Hydrogen-3	Avg Concentration: 2.5220E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Iodine-129	Avg Concentration: 8.0323E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Krypton-85	Avg Concentration: 3.7353E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Lead-210	Avg Concentration: 1.8368E-009 Ci	Low Limit Concent: Upper Limit Concent:
	Neptunium-237	Avg Concentration: 9.4647E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Nickel-59	Avg Concentration: 4.9711E-001 Ci	Low Limit Concent: Upper Limit Concent:

Nickel-63	<b>Avg Concentration:</b> 5.3923E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.1094E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 1.6402E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 1.8227E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.5559E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.0051E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 1.7553E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 5.0272E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 8.4536E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 3.3702E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 2.8085E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.5080E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 7.7234E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 2.0895E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.0953E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 9.8579E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 3.6791E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 2.4940E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.9489E-009 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.9126E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 1.3958E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.1852E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 4.5217E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.7160E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 9.3243E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 5.1396E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Hanford - Spent Nuclear Fuel - Dry K Basins Fuel	STREAM CODE: 01487
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Stream Fuel Types
Hanford Production type SNF

**No Information Provided for this Stream**

Hanford - Spent Nuclear Fuel - 400 Area U-Zirc Hydride Matrix	STREAM CODE: 01488
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
400 Area Interim Storage Area	100

Source Reactor	% of Stream Quantity
Oregon State TRIGA Rx	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	400 Area U-Zirc Hydride Matrix
<b>Isotopes</b>	
Actinium-227	Avg Concentration: 4.9016E-004 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-241	Avg Concentration: 9.5640E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-242m	Avg Concentration: 1.1403E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Americium-243	Avg Concentration: 1.1403E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Carbon-14	Avg Concentration: 3.9268E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-134	Avg Concentration: 1.2415E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-135	Avg Concentration: 1.4806E+002 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 2.2255E+007 Ci      Low Limit Concent:      Upper Limit Concent:
Chlorine-36	Avg Concentration: 1.1771E+001 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 1.1495E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-245	Avg Concentration: 6.3086E-004 Ci      Low Limit Concent:      Upper Limit Concent:
Curium-246	Avg Concentration: 1.7749E-005 Ci      Low Limit Concent:      Upper Limit Concent:
Hydrogen-3	Avg Concentration: 1.3518E+004 Ci      Low Limit Concent:      Upper Limit Concent:
Iodine-129	Avg Concentration: 3.3290E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Krypton-85	Avg Concentration: 2.7772E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Lead-210	Avg Concentration: 1.1587E-008 Ci      Low Limit Concent:      Upper Limit Concent:
Neptunium-237	Avg Concentration: 8.8191E+000 Ci      Low Limit Concent:      Upper Limit Concent:
Nickel-59	Avg Concentration: 2.2899E+003 Ci      Low Limit Concent:      Upper Limit Concent:

Nickel-63	Avg Concentration: 3.2555E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 7.6972E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 2.1335E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 2.7497E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 1.1403E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 2.0967E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 8.1754E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.5909E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 1.1219E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 4.1475E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.0484E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 1.7933E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 5.5085E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 1.2875E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 5.9407E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 2.1611E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 2.0048E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 1.7657E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 4.7636E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 5.4993E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-232	Avg Concentration: 1.3334E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 2.5841E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 9.6560E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 4.5429E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 6.0971E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 2.6761E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 3.5773E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Hanford - Spent Nuclear Fuel - FFTF Oxide and Test Fuel	STREAM CODE: 01489
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Fast Flux Test Facility	100

Source Reactor	% of Stream Quantity
Fast Flux Test Facility	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	FFTF Oxide and Test Fuel		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 5.9231E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 2.1067E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 3.8937E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 3.1292E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 2.9477E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 6.4786E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 1.7949E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 2.8663E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 4.1575E-010 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 2.6183E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 5.9955E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 2.9012E+008 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 5.1901E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 7.8900E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 1.0240E-030 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 7.6719E-011 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 1.0240E-030 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 5.4030E+001 Ci	Low Limit Concent: Upper Limit Concent:

Curium-246	Avg Concentration: 9.1703E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.8262E-028 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 7.5072E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 4.6524E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 3.6527E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 6.3534E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 2.9670E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 3.6319E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.0785E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 2.1194E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 1.0162E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 5.2960E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 5.2223E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 9.8697E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 1.7839E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 3.8262E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 1.5780E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 1.3678E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 3.1065E+008 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 3.4483E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 2.4454E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 8.1491E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 2.1860E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 2.5916E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 1.2796E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 1.8630E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 1.3601E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 6.5433E+001 Ci	Low Limit Concent:	Upper Limit Concent:

Strontium-90	<b>Avg Concentration:</b> 1.0778E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.2728E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 4.7525E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.4638E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 8.4930E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 8.2202E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 2.7078E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 3.2632E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 6.3536E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.2914E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 4.8650E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 5.9791E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 3.0741E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Hanford - Spent Nuclear Fuel - FFTF Low Exposure SNF

STREAM CODE: 01490

**No Information Provided for this Stream**

Hanford - Spent Nuclear Fuel - Dry Low Exposure Fuel

STREAM CODE: 01491

**No Information Provided for this Stream**

Hanford - Spent Nuclear Fuel - Dry FFTF Fuel	STREAM CODE: 01492
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<b>Stream Fuel Types</b>
DOE Test SNF SST clad

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Dry FFTF Fuel		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 4.0278E-005 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 7.5120E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 1.3887E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 1.0675E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 9.9830E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 9.1923E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 2.0411E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 1.0329E+008 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 1.8582E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 2.7972E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 1.8434E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 3.1283E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Hydrogen-3	Avg Concentration: 1.2899E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Iodine-129	Avg Concentration: 2.1597E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Krypton-85	Avg Concentration: 1.2849E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Lead-210	Avg Concentration: 3.4249E-006 Ci	Low Limit Concent: Upper Limit Concent:
	Neptunium-237	Avg Concentration: 7.4626E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Nickel-59	Avg Concentration: 3.6275E+001 Ci	Low Limit Concent: Upper Limit Concent:

Nickel-63	<b>Avg Concentration:</b> 1.7643E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 1.7792E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-94	<b>Avg Concentration:</b> 3.3755E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 6.0788E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 1.3541E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 5.6340E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 4.8828E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 1.1070E+008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.1762E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 8.1545E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 7.7097E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 3.6275E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 3.5978E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 4.8531E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 2.2190E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 3.8252E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 7.7097E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.6803E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 9.2417E-007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 2.8812E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 7.9074E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 1.1565E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 1.8335E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 4.5270E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.6457E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.0428E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Hanford - Spent Nuclear Fuel - FFTF Metallic Sodium Bonded	STREAM CODE: 01493
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Stream Fuel Types
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Fast Flux Test Facility	67
Plutonium Finishing Plant	33

Source Reactor	% of Stream Quantity
Fast Flux Test Facility	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	FFTF Metallic Sodium Bonded		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 3.3111E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 6.1938E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 1.1451E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 8.7102E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 8.1457E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 7.8635E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 1.6654E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 8.5148E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Chlorine-36	Avg Concentration: 1.5162E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 2.3152E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 1.5041E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 2.5526E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 1.0819E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 1.7622E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 1.0709E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 2.7945E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 6.1377E+001 Ci	Low Limit Concent:	Upper Limit Concent:

Nickel-59	Avg Concentration: 2.9599E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 1.4548E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.4517E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 2.7542E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 4.9600E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 1.1157E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 4.6468E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 4.0272E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 9.1268E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 9.5975E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 6.6586E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 6.3512E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 2.9613E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 5.6258E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 4.0022E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 1.8106E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 3.1519E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 6.2907E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 1.3843E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 7.5429E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 2.3510E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 6.4803E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 9.5269E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 1.4976E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 3.7208E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 1.3428E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 8.5086E+001 Ci	Low Limit Concent:	Upper Limit Concent:

Hanford - Spent Nuclear Fuel - Dry Sodium Bonded Fuel	STREAM CODE: 01494
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<b>Stream Fuel Types</b>
DOE Test SNF SST clad

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Dry Sodium Bonded Fuel		
	<b>Isotopes</b>		
	Actinium-227	Avg Concentration: 2.7182E-006 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 5.0694E+005 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 9.3718E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 7.2039E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 6.7370E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 6.2034E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 1.3774E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 6.9705E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 1.2540E-002 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 1.8877E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-245	Avg Concentration: 1.2440E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-246	Avg Concentration: 2.1112E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Hydrogen-3	Avg Concentration: 8.7048E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Iodine-129	Avg Concentration: 1.4575E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Krypton-85	Avg Concentration: 8.6714E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Lead-210	Avg Concentration: 2.3113E-007 Ci	Low Limit Concent: Upper Limit Concent:
	Neptunium-237	Avg Concentration: 5.0361E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Nickel-59	Avg Concentration: 2.4480E+000 Ci	Low Limit Concent: Upper Limit Concent:

Nickel-63	Avg Concentration: 1.1907E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.2007E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 2.2779E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 4.1022E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 9.1383E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 3.8021E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 3.2951E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 7.4708E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 7.9377E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 5.5030E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 5.2028E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 2.4480E-007 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 2.4280E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 3.2751E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Selenium-79	Avg Concentration: 1.4975E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Strontium-90	Avg Concentration: 2.5814E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Technetium-99	Avg Concentration: 5.2028E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-230	Avg Concentration: 1.1340E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Thorium-232	Avg Concentration: 6.2367E-008 Ci	Low Limit Concent:	Upper Limit Concent:
Tin-126	Avg Concentration: 1.9444E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-233	Avg Concentration: 5.3363E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-234	Avg Concentration: 7.8043E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-235	Avg Concentration: 1.2373E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-236	Avg Concentration: 3.0550E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Uranium-238	Avg Concentration: 1.1106E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Zirconium-93	Avg Concentration: 7.0372E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Hanford - Spent Nuclear Fuel - 324/325/327 U Oxide LWR	STREAM CODE: 01495
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Stream Fuel Types
Commerical type SNF

Storage Facility	% of Stream Quantity
Radiochem. Eng. Cells 324 Bldg	100

Source Reactor	% of Stream Quantity
Calvert Cliffs, Unit 1	30.64
Cooper Nuclear Station	16.69
Point Beach Unit 2	52.66

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:
100	324/325/327 U Oxide LWR

Isotopes			
Actinium-227	Avg Concentration: 6.2471E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 3.8489E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 5.9609E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 1.7073E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 7.7570E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 1.8356E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 3.1285E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 1.0461E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 5.5858E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.9410E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 5.0036E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 2.5758E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 3.6417E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 2.5659E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.3718E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.5726E+000 Ci	Low Limit Concent:	Upper Limit Concent:

Nickel-63	<b>Avg Concentration:</b> 4.0660E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Niobium-93m	<b>Avg Concentration:</b> 2.8916E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Palladium-107	<b>Avg Concentration:</b> 9.8690E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 4.0562E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.8193E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 5.7141E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 7.9347E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.8850E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 5.8030E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 3.0989E-006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.9607E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 7.1846E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.3027E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 3.8884E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 7.8656E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.3521E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 5.4773E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.8127E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 4.9148E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 3.0693E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.9410E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 3.3258E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.7831E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 2.6054E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.8258E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Hanford - Spent Nuclear Fuel - 324/5/7 Dry Oxide Fuel

STREAM CODE: 01496

**No Information Provided for this Stream**

Hanford - Spent Nuclear Fuel - PFP Miscellaneous SNF	STREAM CODE: 01498
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Stream Fuel Types
DOE Test SNF-Not SST or Zirc clad

Storage Facility	% of Stream Quantity
Plutonium Finishing Plant	100

Source Reactor	% of Stream Quantity
Los Alamos Mol Pu Rx Exp	100.00

**ISOTOPE AND CONTAMINANT PROFILES**

% of Stream	TOTAL CURIES:
100	PFP Miscellaneous SNF
<b>Isotopes</b>	
Cadmium-113m	Avg Concentration: 1.9376E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Cesium-137	Avg Concentration: 2.0482E+005 Ci      Low Limit Concent:      Upper Limit Concent:
Cobalt-60	Avg Concentration: 1.5419E+003 Ci      Low Limit Concent:      Upper Limit Concent:
Plutonium-239	Avg Concentration: 2.3963E+006 Ci      Low Limit Concent:      Upper Limit Concent:
Plutonium-240	Avg Concentration: 5.5982E+005 Ci      Low Limit Concent:      Upper Limit Concent:

Hanford - Spent Nuclear Fuel - T Plant U Oxide-Ceramic	STREAM CODE: 01499
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Stream Fuel Types
DOE Test SNF Zirc clad

Storage Facility	% of Stream Quantity
T-Plant	100

Source Reactor	% of Stream Quantity
Shippingport PWR	100.00

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	T Plant U Oxide-Ceramic		
<b>Isotopes</b>			
Actinium-227	Avg Concentration: 5.6224E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-241	Avg Concentration: 3.4640E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-242m	Avg Concentration: 5.3648E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Americium-243	Avg Concentration: 1.5366E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Carbon-14	Avg Concentration: 6.9813E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-134	Avg Concentration: 1.6521E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-135	Avg Concentration: 2.8156E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Cesium-137	Avg Concentration: 9.4150E+006 Ci	Low Limit Concent:	Upper Limit Concent:
Cobalt-60	Avg Concentration: 5.0273E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 2.6469E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 4.5032E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 2.3182E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 3.2775E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 2.3093E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.2346E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 3.2153E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 3.6594E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 2.6025E+002 Ci	Low Limit Concent:	Upper Limit Concent:

Palladium-107	<b>Avg Concentration:</b> 8.8821E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-238	<b>Avg Concentration:</b> 3.6505E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-239	<b>Avg Concentration:</b> 3.4374E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-240	<b>Avg Concentration:</b> 5.1427E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-241	<b>Avg Concentration:</b> 7.1412E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Plutonium-242	<b>Avg Concentration:</b> 1.6965E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Protactinium-231	<b>Avg Concentration:</b> 5.2227E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-226	<b>Avg Concentration:</b> 2.7890E-005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Radium-228	<b>Avg Concentration:</b> 2.6646E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 6.4662E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 1.1724E+005 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 3.4995E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 7.0790E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 1.2168E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 4.9296E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 2.5314E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 4.4233E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 2.7623E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.6469E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 2.9933E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 2.5047E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 2.3449E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 1.6432E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Hanford - Spent Nuclear Fuel - Dry T Plant U-Oxide Ceramic

STREAM CODE: 01500

**No Information Provided for this Stream**

Hanford - Spent Nuclear Fuel - Ret TRU to SNF Program	STREAM CODE: 01568
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Stream Fuel Types
Commerical type SNF DOE Test SNF SST clad

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	Ret TRU to SNF Program		
	Isotopes		
	Actinium-227	Avg Concentration: 2.0773E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 1.1091E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 2.0411E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 5.5746E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 3.3919E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 1.3795E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 3.7670E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 3.7768E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 1.5656E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 1.4408E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 1.4535E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 3.6349E+007 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 1.0856E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Cobalt-60	Avg Concentration: 4.8306E+004 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-242	Avg Concentration: 1.2784E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-243	Avg Concentration: 2.3313E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Curium-244	Avg Concentration: 1.2784E+002 Ci	Low Limit Concent: Upper Limit Concent:

Curium-245	Avg Concentration: 5.5757E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 1.0456E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 1.6239E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 2.6900E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 2.8478E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 3.3786E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 4.2838E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 1.2460E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 4.6012E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 1.9125E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 2.8885E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 2.0460E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 3.1398E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.3637E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 1.9811E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 6.5110E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.4895E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 7.8914E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 6.8231E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 1.7323E+007 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 6.1758E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 5.1003E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 5.6057E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 1.5435E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-228	Avg Concentration: 7.1110E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Ruthenium-106	Avg Concentration: 3.3337E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-147	Avg Concentration: 1.3132E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Samarium-151	Avg Concentration: 7.8173E+005 Ci	Low Limit Concent:	Upper Limit Concent:

Selenium-79	<b>Avg Concentration:</b> 6.9860E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 2.6487E+007 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 2.3390E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 3.2782E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 7.0685E-004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 7.7134E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 5.0929E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 7.2882E-001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 2.2796E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 4.2156E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 7.0339E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 3.7495E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.0042E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 3.9931E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

Hanford - Spent Nuclear Fuel - Washed FFTF Oxide and Test Fuel

STREAM CODE: 02402

**No Information Provided for this Stream**

Hanford - Spent Nuclear Fuel - 324/325/327 U Oxide - Failed Clad or Declad	STREAM CODE: 02403
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Stream Fuel Types
Commerical type SNF
DOE Test SNF SST clad

Storage Facility	% of Stream Quantity
Post-Irrad Test Lab 327 Bldg	14
Rad-Chem & Anal Lab 325 Bldg	10
Radiochem. Eng. Cells 324 Bldg	76

Source Reactor	% of Stream Quantity
Commercial (Misc)	17.56
DOE Fast Misc	6.46
H. B. Robinson 2	30.77
Point Beach Unit 2	4.04
Shippingport PWR	1.02
Vallecitos Boiling Water	40.15

ISOTOPE AND CONTAMINANT PROFILES

% of Stream	TOTAL CURIES:		
100	324/325/327 U Oxide - Failed Clad or Declad		
	Isotopes		
	Actinium-227	Avg Concentration: 9.3655E-003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-241	Avg Concentration: 3.8877E+003 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-242m	Avg Concentration: 8.4239E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Americium-243	Avg Concentration: 3.5375E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Antimony-125	Avg Concentration: 2.3110E+001 Ci	Low Limit Concent: Upper Limit Concent:
	Barium-137m	Avg Concentration: 9.9760E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cadmium-113m	Avg Concentration: 1.2150E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Carbon-14	Avg Concentration: 5.8077E-001 Ci	Low Limit Concent: Upper Limit Concent:
	Cerium-144	Avg Concentration: 3.9140E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-134	Avg Concentration: 1.8072E+002 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-135	Avg Concentration: 6.3845E+000 Ci	Low Limit Concent: Upper Limit Concent:
	Cesium-137	Avg Concentration: 7.2737E+006 Ci	Low Limit Concent: Upper Limit Concent:
	Chlorine-36	Avg Concentration: 2.1556E-003 Ci	Low Limit Concent: Upper Limit Concent:

Cobalt-60	Avg Concentration: 1.4030E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-242	Avg Concentration: 5.0300E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-243	Avg Concentration: 8.6940E-005 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-244	Avg Concentration: 5.0300E-004 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-245	Avg Concentration: 3.6364E-002 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-246	Avg Concentration: 5.8077E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Curium-247	Avg Concentration: 8.0150E-014 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-154	Avg Concentration: 3.0130E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Europium-155	Avg Concentration: 1.4370E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Hydrogen-3	Avg Concentration: 4.2508E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Iodine-129	Avg Concentration: 9.0544E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Iron-55	Avg Concentration: 2.4760E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Krypton-85	Avg Concentration: 7.4300E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Lead-210	Avg Concentration: 4.4998E-006 Ci	Low Limit Concent:	Upper Limit Concent:
Neptunium-237	Avg Concentration: 9.9969E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-59	Avg Concentration: 4.2061E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Nickel-63	Avg Concentration: 5.9194E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-93m	Avg Concentration: 1.7690E+001 Ci	Low Limit Concent:	Upper Limit Concent:
Niobium-94	Avg Concentration: 4.6150E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Palladium-107	Avg Concentration: 8.2163E-001 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-238	Avg Concentration: 2.5174E+004 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-239	Avg Concentration: 6.4880E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-240	Avg Concentration: 2.3912E+003 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-241	Avg Concentration: 6.1219E+005 Ci	Low Limit Concent:	Upper Limit Concent:
Plutonium-242	Avg Concentration: 1.9308E+000 Ci	Low Limit Concent:	Upper Limit Concent:
Promethium-147	Avg Concentration: 9.3460E+002 Ci	Low Limit Concent:	Upper Limit Concent:
Protactinium-231	Avg Concentration: 8.8425E-003 Ci	Low Limit Concent:	Upper Limit Concent:
Radium-226	Avg Concentration: 9.3169E-006 Ci	Low Limit Concent:	Upper Limit Concent:

Radium-228	<b>Avg Concentration:</b> 4.5153E-002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Ruthenium-106	<b>Avg Concentration:</b> 6.9970E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-147	<b>Avg Concentration:</b> 6.7000E-008 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Samarium-151	<b>Avg Concentration:</b> 2.2398E+004 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Selenium-79	<b>Avg Concentration:</b> 1.5753E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Strontium-90	<b>Avg Concentration:</b> 6.9074E+006 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Technetium-99	<b>Avg Concentration:</b> 5.3383E+002 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-230	<b>Avg Concentration:</b> 1.3584E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Thorium-232	<b>Avg Concentration:</b> 4.2903E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Tin-126	<b>Avg Concentration:</b> 1.5596E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-232	<b>Avg Concentration:</b> 5.1349E-003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-233	<b>Avg Concentration:</b> 4.4787E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-234	<b>Avg Concentration:</b> 5.2995E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-235	<b>Avg Concentration:</b> 6.1752E+000 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-236	<b>Avg Concentration:</b> 1.7429E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Uranium-238	<b>Avg Concentration:</b> 1.6481E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Yttrium-90	<b>Avg Concentration:</b> 1.0100E+003 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>
Zirconium-93	<b>Avg Concentration:</b> 8.0076E+001 Ci	<b>Low Limit Concent:</b>	<b>Upper Limit Concent:</b>

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Data Source: Office of Environmental Management Corporate Database