Appendix B. Radiological Projections and Capacity Analysis

Base Case: Hanford 200 Area LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Sa (NO
	88-97 Volume (m3)	98-70 Volume (m3)	98-70 Volume (m3)	Total Volume (m3)					
	1.1E+05	2.7E+05	1.4E+04	3.9E+05					
Al-26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Am-241	3.2E+01	4.7E+02	1.0E-02	5.4E+02	1.4E-03	9.0E-01	1.6E-03	I	WAC
Am-243	1.6E-02	8.2E-01	0.0E+00	2.1E-01	5.4E-07	9.0E-04	6.0E-04	I	I
Ba-133	1.7E-04	1.9E-02	0.0E+00	4.3E-03	1.1E-08	3.0E+02	3.6E-11	I	I
C-14	2.0E+02	1.7E+02	2.0E-01	3.9E+02	1.0E-03	9.1E-02	1.1E-02	I	WAC
C-14 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cd-113m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cl-36	3.7E-07	7.8E-06	0.0E+00	9.1E-06	2.3E-11	7.4E-07	3.2E-05	W	I
Cm-243	1.4E-02	1.3E+00	0.0E+00	3.0E-01	7.6E-07	8.0E-01	9.5E-07	I	I
Cm-244	6.8E-01	4.3E+00	0.0E+00	5.4E+00	1.4E-05	2.0E+00	6.9E-06	I	I
Co-60	9.9E+05	1.6E+05	1.3E+02	1.2E+06	3.0E+00	3.0E+04	1.0E-04	I	I
Cs-135	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cs-137	8.6E+05	1.8E+07	7.7E+01	2.1E+07	5.3E+01	1.2E+04	4.4E-03	I	WAC
Eu-152	1.3E+03	4.7E-04	1.5E-01	1.3E+03	3.4E-03	2.0E+01	1.7E-04	I	I
Eu-154	1.9E+03	2.6E-01	5.6E-02	1.9E+03	4.9E-03	4.0E+02	1.2E-05	I	I
H-3	8.8E+04	2.1E+05	4.0E+00	1.4E+05	3.7E-01	9.9E+04	3.7E-06	I	WAC
I-129	9.8E-02	1.4E+00	0.0E+00	1.6E+00	4.2E-06	8.5E-03	4.9E-04	I	WAC
K-40	3.3E-04	3.4E-04	3.7E-02	3.3E-02	8.5E-08	7.0E-04	1.2E-04	I	I
Nb-93m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Nb-94	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ni-59	4.9E+03	4.3E+00	0.0E+00	4.9E+03	1.3E-02	3.0E+00	4.2E-03	I	I
Ni-63	8.2E+05	2.2E+03	0.0E+00	8.2E+05	2.1E+00	2.0E+05	1.1E-05	I	WAC,
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	2.7E-02	5.0E-01	0.0E+00	2.5E-01	6.5E-07	4.0E-04	1.6E-03	I	
Pa-231	4.5E-07	5.1E-05	0.0E+00	1.1E-05	2.9E-11	5.6E-08	5.1E-04	W	
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	1.4E+02	2.9E+00	0.0E+00	1.4E+02	3.6E-04	1.1E-02	3.3E-02	W	
Pu-239	4.3E+01	3.3E+02	2.4E-02	4.0E+02	1.0E-03	4.0E-01	2.6E-03	I	WAC
Pu-240	1.4E+01	1.1E+02	2.4E-03	1.2E+02	3.1E-04	6.0E-03	5.1E-02	I	
Pu-241	3.3E+02	3.7E+02	2.4E-01	7.2E+02	1.8E-03	2.0E-01	9.2E-03	I	
Pu-242	1.0E-03	2.6E-02	0.0E+00	6.9E-03	1.8E-08	6.0E-03	2.9E-06	I	
Pu-244	3.8E-06	4.3E-04	0.0E+00	9.4E-05	2.4E-10	4.0E-04	6.0E-07	I	
Ra-226	6.4E-04	5.7E-02	1.6E-02	2.6E-02	6.7E-08	8.0E-05	8.4E-04	I	
Ra-228	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Se-79	7.8E-05	1.7E-03	0.0E+00	1.9E-03	5.0E-09	1.7E-06	3.0E-03	W	
Sm-151	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sn-121m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sn-126	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sr-90	9.9E+05	2.0E+07	7.5E+01	2.4E+07	6.1E+01	5.4E+04	1.1E-03	I	WA
Tc-99	7.1E+00	1.3E+02	1.2E-03	1.6E+02	4.1E-04	2.3E-02	1.8E-02	I	WA
Th-229	2.1E-05	2.4E-03	0.0E+00	5.3E-04	1.3E-09	5.0E-04	2.7E-06	I	
Th-230	5.3E-05	4.8E-03	1.2E-03	2.1E-03	5.4E-09	8.0E-05	6.7E-05	I	
Th-232	1.1E-01	1.4E-02	2.5E-01	3.3E-01	8.6E-07	6.0E-05	1.4E-02	I	
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.4E-05	2.7E-03	0.0E+00	6.0E-04	1.5E-09	2.0E-03	7.7E-07	I	
U-233	3.2E-01	5.5E+00	2.4E-03	6.5E+00	1.7E-05	7.0E-04	2.4E-02	I	
U-234	7.5E+01	2.4E+01	1.0E-02	1.0E+02	2.6E-04	4.0E-03	6.5E-02	I	WA
U-235	1.6E+00	8.4E-01	8.7E-03	2.6E+00	6.6E-06	6.0E-04	1.1E-02	I	
U-236	5.8E-02	1.2E+00	0.0E+00	1.4E+00	3.6E-06	2.0E-02	1.8E-04	I	
U-238	6.3E+01	4.7E+01	1.1E+00	1.2E+02	3.0E-04	5.0E-03	5.9E-02	I	
Zr-93	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
						SOF=	3.2E-01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PE=Performace Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Base Case: INEEL RWMC LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3) 1.3E+04	98-70 Volume (m3) 2.4E+04	98-70 Volume (m3) 1.4E+02	Total Volume (m3) 3.7E+04					
Al-26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Am-241	1.3E+00	4.6E+00	1.1E-03	5.9E+00	1.6E-04	7E-03	2.3E-02	I	PE
Am-243	2.9E-03	1.0E-02	0.0E+00	1.3E-02	3.6E-07	9E-04	4.0E-04	I	PE
Ba-133	1.4E+01	9.5E-02	0.0E+00	1.4E+01	3.8E-04	3E+02	1.3E-06	I	PE
C-14	1.3E+03	5.0E+03	0.0E+00	6.3E+03	1.7E-01	3E+03	5.7E-05	I	PA
C-14 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cd-113m	2.2E+01	8.7E+01	1.3E-04	1.1E+02	2.9E-03	1E+00	2.9E-03	I	PE
Cl-36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cm-243	6.9E-04	2.7E-03	0.0E+00	3.4E-03	9.1E-08	8E-01	1.1E-07	I	PE
Cm-244	9.3E-02	3.5E-01	3.5E-05	4.5E-01	1.2E-05	2E+00	6.0E-06	I	PE
Co-60	3.7E+06	1.2E+07	1.3E-01	1.6E+07	4.2E+02	3E+04	1.4E-02	I	PE
Cs-135	0.0E+00	0.0E+00	0.0E+00	1.3E-01	3.6E-06	2E-01	1.8E-05	I	PE
Cs-137	2.0E+04	6.4E+04	1.4E-01	8.4E+04	2.3E+00	8E+00	2.7E-01	I	PA
Eu-152	3.3E+03	1.3E+04	0.0E+00	1.6E+04	4.4E-01	2E+01	2.2E-02	I	PE
Eu-154	3.4E+03	1.3E+04	2.8E-03	1.6E+04	4.4E-01	4E+02	1.1E-03	I	PE
H-3	1.3E+06	4.0E+06	1.1E-03	5.4E+06	1.4E+02	2E+07	7.2E-06	I	PA
I-129	6.3E-02	2.4E-01	0.0E+00	3.0E-01	8.1E-06	4E+00	2.0E-06	I	PA
K-40	1.7E-01	0.0E+00	0.0E+00	1.7E-01	4.5E-06	4E-05	1.1E-01	W	PE
Nb-93m	1.2E+02	4.7E+02	0.0E+00	5.9E+02	1.6E-02	4E+03	4.0E-06	I	PE
Nb-94	5.7E+00	2.1E+01	0.0E+00	2.7E+01	7.1E-04	3E-01	2.4E-03	I	PA
Ni-59	1.8E+04	6.3E+04	1.1E-03	8.1E+04	2.2E+00	2E+02	1.1E-02	I	PA
Ni-63	8.0E+05	2.2E+06	5.0E-02	3.0E+06	8.2E+01	3E+03	2.7E-02	I	PA
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	7.4E-02	2.7E-01	0.0E+00	3.4E-01	9.2E-06	4E-04	2.3E-02	I	PE
Pa-231	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	3.8E-01	1.4E+00	2.8E-04	1.8E+00	4.8E-05	7E-02	6.9E-04	I	PE
Pu-239	1.1E+00	3.9E+00	6.4E-03	5.0E+00	1.3E-04	6E-03	2.2E-02	I	PE
Pu-240	8.6E-02	3.2E-01	7.1E-03	4.2E-01	1.1E-05	6E-03	1.9E-03	I	PE
Pu-241	3.2E+00	1.2E+01	1.2E-01	1.5E+01	4.1E-04	2E-01	2.1E-03	I	PE
Pu-242	1.1E-04	2.6E-04	0.0E+00	3.6E-04	9.8E-09	6E-03	1.6E-06	I	PE
Pu-244	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ra-226	7.9E+00	3.1E+01	0.0E+00	3.8E+01	1.0E-03	8E-05	1.3E+01	I	PE
Ra-228	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Se-79	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sm-151	2.7E+02	1.1E+03	1.1E-02	1.3E+03	3.6E-02	2E+02	1.8E-04	I	PE
Sn-121m	3.7E+01	1.4E+02	0.0E+00	1.8E+02	4.8E-03	2E+01	2.4E-04	I	PE
Sn-126	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sr-90	8.7E+03	3.3E+04	2.1E-01	4.2E+04	1.1E+00	1E+01	1.1E-01	I	PA
Tc-99	3.9E+00	1.5E+01	0.0E+00	1.9E+01	5.2E-04	1E+01	5.2E-05	I	PA
Th-229	3.7E-04	1.4E-03	0.0E+00	1.8E-03	4.8E-08	5E-04	9.7E-05	I	PE
Th-230	4.1E-03	1.6E-02	0.0E+00	2.0E-02	5.4E-07	8E-05	6.7E-03	I	PE
Th-232	9.5E-01	3.7E+00	0.0E+00	4.6E+00	1.2E-04	6E-05	2.1E+00	I	PE
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.2E+00	1.8E-02	0.0E+00	2.2E+00	6.0E-05	2E-03	3.0E-02	I	PE
U-233	1.8E-02	7.1E-02	0.0E+00	9.0E-02	2.4E-06	7E-04	3.4E-03	I	PE
U-234	1.4E-01	4.4E-01	0.0E+00	5.8E-01	1.6E-05	1E-03	1.6E-02	I	PE
U-235	1.6E+00	6.3E+00	0.0E+00	7.9E+00	2.1E-04	2E-02	1.1E-02	I	PA
U-236	2.3E-02	9.1E-02	0.0E+00	1.1E-01	3.1E-06	2E-02	1.5E-04	I	PE
U-238	7.4E+01	2.7E+02	0.0E+00	3.4E+02	9.2E-03	4E-02	2.3E-01	I	PA
Zr-93	4.7E+00	1.8E+01	0.0E+00	2.3E+01	6.1E-04	5E+00	1.2E-04	I	PE
						SOF=	1.6E+01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PE=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Base Case: LANL TA-54 LLW

Nuclide	88-97 Volume (m3) 4.3E+04 Past Disposed Radioactivity 1988-1997	98-70 Volume (m3) 5.2E+05 Waste Management Disposed Radioactivity 1998-2070 (Ci)	98-70 Volume (m3) 3.7E+04 Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Volume (m3) 7.0E+05 Total Disposed Radioactivity 1988-2070	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
Al-26	3.8E-08	0.0E+00	0.0E+00	3.8E-08	5.4E-14	5E-05	1.1E-09	I	PB
Am-241	2.2E+00	9.1E+01	0.0E+00	9.3E+01	1.3E-04	7E-03	1.9E-02	I	PB
Am-243	2.9E-04	2.4E-03	0.0E+00	2.7E-03	3.9E-09	9E-04	4.3E-06	I	PB
Ba-133	2.5E+01	1.4E+03	0.0E+00	1.4E+03	2.1E-03	3E+02	6.9E-06	I	PB
C-14	4.6E-02	1.3E+00	0.0E+00	1.4E+00	2.0E-06	1E-03	2.0E-03	A	PB
C-14 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cd-113m	5.1E-01	0.0E+00	0.0E+00	5.1E-01	7.4E-07	1E+00	7.4E-07	I	PB
Cl-36	5.9E-04	1.5E-02	0.0E+00	1.6E-02	2.2E-08	2E-04	1.1E-04	I	PB
Cm-243	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cm-244	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Co-60	8.9E+02	9.9E+02	0.0E+00	1.9E+03	2.7E-03	3E+04	9.0E-08	I	PB
Cs-135	1.2E-03	7.6E-02	0.0E+00	7.7E-02	1.1E-07	2E-01	5.5E-07	I	PB
Cs-137	8.4E+01	2.4E+01	0.0E+00	1.1E+02	1.5E-04	3E-01	5.2E-04	I	PB
Eu-152	2.9E-01	7.0E-01	0.0E+00	9.9E-01	1.4E-06	2E+01	7.1E-08	I	PB
Eu-154	2.2E-01	2.7E+00	0.0E+00	2.9E+00	4.2E-06	4E+02	1.0E-08	I	PB
H-3	4.3E+05	2.1E+05	0.0E+00	6.4E+05	9.2E-01	7E+01	1.3E-02	I	PB
I-129	1.5E-06	0.0E+00	0.0E+00	1.5E-06	2.2E-12	2E-03	1.1E-09	I	PB
K-40	5.1E-03	3.5E-01	0.0E+00	3.5E-01	5.1E-07	7E-04	7.3E-04	I	PB
Nb-93m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Nb-94	2.8E-02	0.0E+00	0.0E+00	2.8E-02	4.0E-08	9E-05	4.4E-04	I	PB
Ni-59	1.8E-02	3.7E-01	0.0E+00	3.9E-01	5.6E-07	3E+00	1.9E-07	I	PB
Ni-63	1.1E-03	6.4E-02	0.0E+00	6.5E-02	9.3E-08	8E+00	1.2E-08	I	PB
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	6.7E-04	3.2E-03	0.0E+00	3.9E-03	5.6E-09	4E-04	1.4E-05	I	PB
Pa-231	9.0E-09	0.0E+00	0.0E+00	9.0E-09	1.3E-14	2E-04	6.5E-11	I	PB
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	5.2E+00	1.8E+02	0.0E+00	1.9E+02	2.7E-04	7E-02	3.8E-03	I	PB
Pu-239	9.6E+00	3.7E+02	0.0E+00	3.8E+02	5.4E-04	6E-03	9.0E-02	I	PB
Pu-240	2.9E-01	3.0E+00	0.0E+00	3.3E+00	4.7E-06	6E-03	7.9E-04	I	PB
Pu-241	4.1E+00	2.8E+01	0.0E+00	3.2E+01	4.6E-05	2E-01	2.3E-04	I	PB
Pu-242	3.2E-04	5.4E-03	0.0E+00	5.7E-03	8.1E-09	6E-03	1.4E-06	I	PB
Pu-244	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ra-226	2.6E-02	2.1E-01	0.0E+00	2.4E-01	3.4E-07	8E-05	4.3E-03	I	PB
Ra-228	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Se-79	2.5E-06	0.0E+00	0.0E+00	2.5E-06	3.6E-12				
Sm-151	7.0E-02	0.0E+00	0.0E+00	7.0E-02	1.0E-07	2E-01	1.8E-11	I	PB
Sn-121m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2E+02	5.0E-10	I	PB
Sn-126	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sr-90	7.3E+00	2.2E+01	0.0E+00	2.9E+01	4.2E-05				
Tc-99	5.6E-02	2.4E+00	0.0E+00	2.5E+00	3.6E-06	5E-02	8.4E-04	I	PB
Th-229	2.8E-04	1.7E-02	0.0E+00	1.7E-02	2.4E-08	1E-04	2.5E-02	W	PB
Th-230	2.8E-06	1.6E-04	0.0E+00	1.6E-04	2.3E-10	5E-04	4.8E-05	I	PB
Th-232	2.3E-02	1.4E+00	0.0E+00	1.4E+00	2.0E-06	8E-05	2.9E-06	I	PB
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6E-05	3.4E-02	I	PB
U-232	1.5E-03	8.5E-02	0.0E+00	8.7E-02	1.2E-07				
U-233	8.5E-03	4.4E-01	0.0E+00	4.5E-01	6.4E-07	2E-03	6.2E-05	I	PB
U-234	8.2E-01	1.4E+01	1.0E+01	3.1E+01	4.4E-05	7E-04	9.2E-04	I	PB
U-235	3.5E-01	2.9E+00	5.1E-01	4.0E+00	5.8E-06	1E-03	4.4E-02	I	PB
U-236	2.6E-03	0.0E+00	0.0E+00	2.6E-03	3.7E-09	6E-04	9.6E-03	I	PB
U-238	2.8E+00	5.6E+01	1.1E+01	7.5E+01	1.1E-04	2E-02	1.8E-07	I	PB
Zr-93	2.8E-05	0.0E+00	0.0E+00	2.8E-05	4.1E-11	5E-03	2.1E-02	I	PB
						5E+00	8.1E-12	I	PB
						SOF= 2.9E-01			

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PB=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Base Case: NTS Areas 3 and 5 LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3) 1.9E+05	98-70 Volume (m3) 6.5E+04	98-70 Volume (m3) 4.1E+05	Total Volume (m3) 6.7E+05					
Al-26	8.4E-06	1.2E-06	0.0E+00	1.0E-05	1.5E-11	5E-05	3E-07	I	PB
Am-241	2.2E+01	4.2E+00	1.1E+01	4.9E+01	7.3E-05	7E-03	1E-02	I	PB
Am-243	8.3E-03	1.2E-03	0.0E+00	9.9E-03	1.5E-08	9E-04	2E-05	I	PB
Ba-133	1.3E+01	1.8E+00	0.0E+00	1.5E+01	2.2E-05	3E+02	7E-08	I	PB
C-14	6.3E+01	1.8E+01	0.0E+00	7.5E+01	1.1E-04	2E-03	6E-02	A	PB
C-14 am	3.5E-07	5.0E-08	0.0E+00	4.2E-07	6.3E-13	2E-02	3E-11		Assumption
Cd-113m	1.7E+00	1.3E-01	7.6E-02	2.0E+00	2.9E-06	1E+00	3E-06	I	PB
Cl-36	4.4E-02	6.2E-03	0.0E+00	5.2E-02	7.8E-08	2E-04	4E-04	I	PB
Cm-243	2.7E-02	3.8E-03	0.0E+00	3.2E-02	4.7E-08	8E-01	6E-08	I	PB
Cm-244	3.0E-01	4.2E-02	0.0E+00	3.6E-01	5.3E-07	2E+00	3E-07	I	PB
Co-60	1.5E+05	2.1E+04	1.0E-01	1.7E+05	2.6E-01	3E+04	9E-06	I	PB
Cs-135	1.8E-03	2.6E-04	0.0E+00	2.2E-03	3.2E-09	2E-01	2E-08	I	PB
Cs-137	8.0E+05	1.1E+05	3.1E+01	9.6E+05	1.4E+00	9E+00	2E-01	I	WAC
Eu-152	1.6E+02	2.1E+01	1.2E+00	1.9E+02	2.9E-04	2E+01	1E-05	I	PB
Eu-154	9.7E+02	2.2E+01	2.1E-01	1.0E+03	1.5E-03	4E+02	4E-06	I	PB
H-3	2.9E+06	1.1E+04	2.8E+00	2.9E+06	4.3E+00	7E+01	6E-02	I	PB
I-129	6.6E-02	9.3E-03	0.0E+00	7.8E-02	1.2E-07	2E-03	6E-05	I	PB
K-40	3.5E-01	4.8E-02	0.0E+00	4.1E-01	6.1E-07	7E-04	9E-04	I	PB
Nb-93m	5.0E+00	7.1E-01	0.0E+00	6.0E+00	8.9E-06	4E+03	2E-09	I	PB
Nb-94	2.3E-01	3.2E-02	0.0E+00	2.7E-01	4.0E-07	9E-05	4E-03	I	PB
Ni-59	7.2E+02	1.0E+02	0.0E+00	8.6E+02	1.3E-03	3E+00	4E-04	I	PB
Ni-63	3.3E+04	4.6E+03	0.0E+00	3.9E+04	5.8E-02	8E+00	7E-03	I	PB
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	3.9E-02	3.8E-03	0.0E+00	4.4E-02	6.5E-08	4E-04	2E-04	I	PB
Pa-231	1.6E-01	2.2E-02	1.8E+01	1.8E+01	2.8E-05	4E-02	7E-04	I	WAC
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	9.4E+01	1.6E+00	2.2E+01	1.2E+02	1.7E-04	7E-02	2E-03	I	PB
Pu-239	1.1E+02	9.1E+01	1.9E+02	1.3E+02	1.9E-04	6E-03	3E-02	I	PB
Pu-240	2.6E+01	2.1E+00	2.6E-01	2.8E+01	4.1E-05	6E-03	7E-03	I	PB
Pu-241	5.4E+02	4.6E+01	0.0E+00	5.5E+02	8.1E-04	2E-01	4E-03	I	PB
Pu-242	1.7E+02	1.8E-04	0.0E+00	1.7E+02	2.5E-04	6E-03	4E-02	I	PB
Pu-244	3.6E-06	5.2E-07	0.0E+00	4.4E-06	6.5E-12	4E-04	2E-08	I	PB
Ra-226	3.3E+01	4.6E+00	3.8E+03	3.8E+03	5.7E-03	4E-02	1E-01	I	WAC
Ra-228	2.1E-02	3.0E-03	2.3E+00	2.4E+00	3.5E-06	4E+03	9E-10	I	PB
Se-79	1.4E-03	2.0E-04	0.0E+00	1.6E-03	2.5E-09	2E-01	1E-08	I	PB
Sm-151	2.0E+01	1.6E+00	8.2E-01	2.3E+01	3.4E-05	2E+02	2E-07	I	PB
Sn-121m	2.1E+00	2.1E-01	0.0E+00	2.4E+00	3.6E-06	2E+01	2E-07	I	PB
Sn-126	9.4E-05	1.3E-05	0.0E+00	1.1E-04	1.7E-10	8E-05	2E-06	I	PB
Sr-90	9.3E+05	1.3E+05	2.8E+01	1.1E+06	1.7E+00	4E+01	4E-02	I	WAC
Tc-99	7.7E+00	9.2E-01	1.7E+01	2.7E+01	4.0E-05	2E-02	2E-03	I	PB
Th-229	1.8E-04	2.6E-05	0.0E+00	2.2E-04	3.2E-10	5E-04	6E-07	I	PB
Th-230	1.0E+01	1.4E+00	1.1E+03	1.1E+03	1.7E-03	8E-02	2E-02	I	WAC
Th-232	2.3E+01	4.2E-01	1.6E+02	1.8E+02	2.7E-04	2E-02	1E-02	I	WAC
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.0E-02	2.9E-03	0.0E+00	2.4E-02	3.6E-08	2E-03	2E-05	I	PB
U-233	1.5E+00	3.8E-02	3.6E-02	1.7E+00	2.5E-06	7E-04	4E-03	I	PB
U-234	9.1E+01	3.1E+00	1.9E+03	1.9E+03	2.8E-03	1E+00	3E-03	I	WAC
U-235	3.6E+02	1.6E-01	8.6E+01	4.4E+02	6.6E-04	3E-01	2E-03	I	WAC
U-236	6.6E-02	9.3E-03	0.0E+00	7.9E-02	1.2E-07	2E-02	6E-06	I	PB
U-238	9.2E+03	3.4E+01	1.9E+03	1.1E+04	1.7E-02	2E+00	8E-03	I	WAC
Zr-93	1.9E-01	2.7E-02	0.0E+00	2.3E-01	3.4E-07	5E+00	7E-08	I	PB
						SOF=	6.3E-01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PB=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

9/10/98

Base Case: ORR SWSA-6 IWMF LLW

Nuclide	88-97 Volume (m3) 3.3E+03	98-70 Volume (m3)	98-70 Volume (m3)	Total Volume (m3) 3.3E+03						
	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
Al-26	1.0E-03	0.0E+00	0.0E+00	1.0E-03	3.1E-07	5E-05	6.1E-03	I	PE
Am-241	3.3E-02	0.0E+00	0.0E+00	3.3E-02	1.0E-05	9E+03	1.1E-09	I	PE
Am-243	6.5E-04	0.0E+00	0.0E+00	6.5E-04	2.0E-07	9E+02	2.2E-10	I	PE
Ba-133	1.1E-05	0.0E+00	0.0E+00	1.1E-05	3.4E-09	3E+02	1.1E-11	I	PE
C-14	1.8E-01	0.0E+00	0.0E+00	1.8E-01	5.5E-05	2E-03	2.2E-02	I	PA
C-14 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cd-113m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cl-36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cm-243	5.7E-05	0.0E+00	0.0E+00	5.7E-05	1.8E-08	8E+05	2.2E-14	I	PE
Cm-244	9.4E+00	0.0E+00	0.0E+00	9.4E+00	2.9E-03	2E+06	1.4E-09	I	PE
Co-60	1.4E+02	0.0E+00	0.0E+00	1.4E+02	4.4E-02	3E+04	1.5E-06	I	PE
Cs-135	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cs-137	5.7E+01	0.0E+00	0.0E+00	5.7E+01	1.7E-02	8E-02	2.0E-01	I	PA
Eu-152	6.5E+01	0.0E+00	0.0E+00	6.5E+01	2.0E-02	2E+01	9.9E-04	I	PE
Eu-154	3.0E+00	0.0E+00	0.0E+00	3.0E+00	9.3E-04	4E+02	2.3E-06	I	PE
H-3	1.3E+04	0.0E+00	0.0E+00	1.3E+04	4.0E+00	1E+03	4.0E-03	I	PA
I-129	1.5E-06	0.0E+00	0.0E+00	1.5E-06	4.6E-10	2E-07	2.1E-03	W	PE
K-40	1.3E-02	0.0E+00	0.0E+00	1.3E-02	4.0E-06	2E-03	2.0E-03	I	PA
Nb-93m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Nb-94	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ni-59	5.3E-04	0.0E+00	0.0E+00	5.3E-04	1.6E-07	3E+00	5.4E-08	I	PE
Ni-63	6.0E+00	0.0E+00	0.0E+00	6.0E+00	1.8E-03	1E+01	1.8E-04	I	PE
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	6.5E-03	0.0E+00	0.0E+00	6.5E-03	2.0E-06	4E+02	5.0E-09	I	PE
Pa-231	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	9.5E-03	0.0E+00	0.0E+00	9.5E-03	2.9E-06	1E+03	2.9E-11	I	PE
Pu-239	1.9E-02	0.0E+00	0.0E+00	1.9E-02	5.7E-06	6E+03	9.5E-10	I	PE
Pu-240	3.6E-02	0.0E+00	0.0E+00	3.6E-02	1.1E-05	7E+03	1.6E-09	I	PE
Pu-241	3.4E-06	0.0E+00	0.0E+00	3.4E-06	1.0E-09	3E+05	3.5E-15	I	PE
Pu-242	3.0E-06	0.0E+00	0.0E+00	3.0E-06	9.1E-10	6E+03	1.5E-13	I	PE
Pu-244	1.0E-06	0.0E+00	0.0E+00	1.0E-06	3.1E-10	4E+02	7.7E-13	I	PE
Ra-226	4.2E-03	0.0E+00	0.0E+00	4.2E-03	1.3E-06	1E-04	8.6E-03	I	PA
Ra-228	1.1E-02	0.0E+00	0.0E+00	1.1E-02	3.2E-06	4E+03	8.0E-10	I	PE
Se-79	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sm-151	1.1E-03	0.0E+00	0.0E+00	1.1E-03	3.4E-07	2E+02	1.7E-09	I	PE
Sn-121m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sn-126	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sr-90	3.1E+01	0.0E+00	0.0E+00	3.1E+01	9.6E-03	5E-01	1.7E-02	I	PA
Tc-99	1.4E-03	0.0E+00	0.0E+00	1.4E-03	4.2E-07	5E-05	7.7E-03	W	PE
Th-229	6.0E-08	0.0E+00	0.0E+00	6.0E-08	1.8E-11	5E+02	3.7E-14	I	PE
Th-230	2.4E-03	0.0E+00	0.0E+00	2.4E-03	7.3E-07	8E+01	9.1E-09	I	PE
Th-232	1.4E-02	0.0E+00	0.0E+00	1.4E-02	4.4E-06	6E+01	7.3E-08	I	PE
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	6.0E-02	0.0E+00	0.0E+00	6.0E-02	1.8E-05	1E-02	1.8E-03	I	PE
U-233	1.0E-02	0.0E+00	0.0E+00	1.0E-02	3.1E-06	7E-04	4.4E-03	I	PE
U-234	6.0E-01	0.0E+00	0.0E+00	6.0E-01	1.8E-04	2E-04	7.4E-01	I	PA
U-235	2.2E-02	0.0E+00	0.0E+00	2.2E-02	6.9E-06	6E-04	1.1E-02	I	PE
U-236	4.8E-05	0.0E+00	0.0E+00	4.8E-05	1.5E-08	2E-02	7.4E-07	I	PE
U-238	3.4E-01	0.0E+00	0.0E+00	3.4E-01	1.0E-04	5E-03	1.9E-02	I	PE
Zr-93	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
						SOF=	1.0E+00		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PE=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Base Case: SRS LAW Vaults LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	S (N
	88-97 Volume (m3) 1.0E+04	98-70 Volume (m3) 1.7E+04	98-70 Volume (m3) 0.0E+00	Total Volume (m3) 2.7E+04					
Al-26	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Am-241	1.8E+00	3.1E+00		4.9E+00	1.8E-04	6E-02	2.9E-03	W	
Am-243	9.7E-06	1.7E-05		2.7E-05	9.7E-10	3E-04	3.2E-06	W	
Ba-133	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
C-14	2.5E-02	4.3E-02		6.7E-02	2.5E-06	8E-04	3.1E-03	A	
C-14 am	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cd-113m	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cl-36	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cm-243	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cm-244	1.3E-02	2.3E-02		3.6E-02	1.3E-06	2E+00	7.0E-07	I	
Co-60	6.8E+00	1.2E+01		1.9E+01	6.8E-04	8E+166	9.0E-171	I	
Cs-135	7.6E-10	1.3E-09		2.1E-09	7.6E-14	1E-06	6.2E-08	W	
Cs-137	2.5E+01	4.3E+01		6.8E+01	2.5E-03	1E+26	1.8E-29	I	
Eu-152	5.9E-01	1.0E+00		1.6E+00	5.9E-05	8E+62	7.4E-68	I	
Eu-154	4.0E-01	7.0E-01		1.1E+00	4.0E-05	1E+101	4.0E-106	I	
H-3	5.7E+04	9.9E+04		1.6E+05	5.7E+00	2E+01	2.9E-01	A	
I-129	1.6E-05	2.7E-05		4.3E-05	1.6E-09	3E-08	5.1E-02	W	
K-40	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Nb-93m	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Nb-94	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Ni-59	2.0E-02	3.4E-02		5.4E-02	2.0E-06	6E-01	3.2E-06	W	
Ni-63	2.5E+00	4.4E+00		6.9E+00	2.5E-04	7E+08	3.7E-13	I	
Ni-63 am	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Np-237	6.2E-01	1.1E+00		1.7E+00	6.2E-05	5E-04	1.2E-01	W	
Pa-231	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Pu Weap	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Pu-238	1.2E+01	2.0E+01		3.2E+01	1.2E-03	8E+00	1.4E-04	I	
Pu-239	1.7E+01	2.9E+01		4.5E+01	1.7E-03	4E-02	4.2E-02	I	V
Pu-240	2.5E+00	4.4E+00		6.9E+00	2.5E-04	5E-03	4.7E-02	I	
Pu-241	3.7E+01	6.5E+01		1.0E+02	3.7E-03	8E+00	5.0E-04	I	
Pu-242	4.4E-02	7.6E-02		1.2E-01	4.4E-06	4E-03	1.1E-03	I	
Pu-244	4.3E-16	7.4E-16		1.2E-15	4.3E-20	3E-04	1.6E-16	I	
Ra-226	4.2E-07	7.2E-07		1.1E-06	4.2E-11	2E-04	2.6E-07	I	
Ra-228	4.7E-04	8.1E-04		1.3E-03	4.6E-08				
Se-79	5.6E-02	9.8E-02		1.5E-01	5.6E-06	2E-03	3.7E-03	W	
Sm-151	7.5E-05	1.3E-04		2.1E-04	7.5E-09	1E+11	6.3E-20	I	
Sn-121m	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Sn-126	2.8E-03	4.8E-03		7.6E-03	2.8E-07	5E-05	5.7E-03	I	
Sr-90	1.5E+01	2.6E+01		4.0E+01	1.5E-03	7E+27	2.2E-31	I	
Tc-99	6.0E-02	1.0E-01		1.6E-01	5.9E-06	7E-05	8.5E-02		V
Th-229	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Th-230	4.6E-04	8.0E-04		1.3E-03	4.6E-08	6E-05	7.3E-04	I	
Th-232	4.6E-04	8.0E-04		1.3E-03	4.6E-08	3E-05	1.5E-03	W, I	
U nat	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
U-232	6.8E-07	1.2E-06		1.9E-06	6.8E-11	4E+08	1.6E-19	I	
U-233	2.6E-02	4.6E-02		7.2E-02	2.6E-06	1E-03	2.4E-03	I	
U-234	2.7E+00	4.7E+00		7.5E+00	2.7E-04	3E-03	9.1E-02		V
U-235	5.5E-02	9.5E-02		1.5E-01	5.5E-06	4E-04	1.5E-02	I	
U-236	4.4E-01	7.6E-01		1.2E+00	4.4E-05	1E-02	4.0E-03	I	
U-238	1.2E+00	2.1E+00		3.3E+00	1.2E-04	3E-03	4.0E-02	I	
Zr-93	9.9E-07	1.7E-06		2.7E-06	9.9E-11	3E+00	3.2E-11	I	
						SOF= 8.0E-01			
NOTE 1:	A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario								
NOTE 2:	PE=Performace Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria								

Base Case: SRS IL Vault LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3) 5.5E+02	98-70 Volume (m3) 2.9E+03	98-70 Volume (m3) 0.0E+00	Total Volume (m3) 3.5E+03					
Al-26	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Am-241	5.7E-01	3.0E+00		3.6E+00	1.0E-03	3E-01	4.0E-03	W, I	PE
Am-243	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Ba-133	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
C-14	2.4E-01	1.3E+00		1.5E+00	4.4E-04				
C-14 atm	0.0E+00	0.0E+00		0.0E+00	0.0E+00	2E-03	2.2E-01	A	PA
Cd-113m	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cl-36	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cm-243	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Cm-244	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Co-60	1.2E+02	6.4E+02		7.6E+02	2.2E-01				
Cs-135	0.0E+00	0.0E+00		0.0E+00	0.0E+00	8E+166	2.9E-168	I	PE
Cs-137	1.2E+02	6.2E+02		7.3E+02	2.1E-01				
Eu-152	0.0E+00	0.0E+00		0.0E+00	0.0E+00	1E+26	1.5E-27	I	PE
Eu-154	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
H-3	6.9E+04	3.7E+05		4.4E+05	1.3E+02				
I-129	1.3E-05	7.1E-05		8.5E-05	2.4E-08	9E+01	1.4E+00	A	PA
K-40	0.0E+00	0.0E+00		0.0E+00	0.0E+00	9E-08	2.7E-01	W	PA
Nb-93m	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Nb-94	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Ni-59	7.4E-02	4.0E-01		4.7E-01	1.4E-04				
Ni-63	7.2E+00	3.9E+01		4.6E+01	1.3E-02	2E+00	7.5E-05	I	PE
Ni-63 atm	0.0E+00	0.0E+00		0.0E+00	0.0E+00	7E+08	1.9E-11	I	PE
Np-237	2.2E-05	1.2E-04		1.4E-04	4.1E-08				
Pa-231	0.0E+00	0.0E+00		0.0E+00	0.0E+00	6E-05	6.6E-04	W	PE
Pu Weap	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Pu-238	6.0E-01	3.2E+00		3.8E+00	1.1E-03				
Pu-239	1.2E-02	6.4E-02		7.6E-02	2.2E-05	8E+00	1.3E-04	I	PE
Pu-240	4.0E-03	2.6E-02		3.1E-02	8.8E-06	4E-03	5.2E-03	I	PE
Pu-241	3.0E-01	1.6E+00		1.9E+00	5.4E-04	5E-03	1.7E-03	I	PE
Pu-242	6.4E-06	3.4E-05		4.1E-05	1.2E-08	6E+00	7.2E-05	I	PE
Pu-244	0.0E+00	0.0E+00		0.0E+00	0.0E+00	4E-03	2.9E-06	I	PE
Ra-226	2.1E+00	1.1E+01		1.4E+01	3.9E-03	3E-04	0.0E+00	I	PE
Ra-228	0.0E+00	0.0E+00		0.0E+00	0.0E+00	No Limit			
Se-79	7.2E-05	3.9E-04		4.6E-04	1.3E-07				
Sm-151	0.0E+00	0.0E+00		0.0E+00	0.0E+00	8E-03	1.7E-05	W	PE
Sn-121m	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Sn-126	7.7E-06	4.1E-05		4.9E-05	1.4E-08				
Sr-90	5.1E-01	2.7E+00		3.2E+00	9.2E-04	5E-05	2.9E-04	I	PE
Tc-99	1.3E-02	7.1E-02		8.4E-02	2.4E-05	7E+27	1.4E-31	I	PE
Th-229	0.0E+00	0.0E+00		0.0E+00	0.0E+00	4E-04	6.0E-02		PA
Th-230	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
Th-232	5.8E-05	3.1E-04		3.7E-04	1.1E-07				
U nat	0.0E+00	0.0E+00		0.0E+00	0.0E+00	3E-05	3.1E-03	I	PE
U-232	0.0E+00	0.0E+00		0.0E+00	0.0E+00				
U-233	2.8E-01	1.5E+00		1.8E+00	5.1E-04				
U-234	3.0E-01	1.6E+00		1.9E+00	5.4E-04	1E-03	4.6E-01	I	PE
U-235	1.6E-02	8.4E-02		1.0E-01	2.9E-05	6E+09	9.0E-14	W	PA
U-236	4.3E-03	2.3E-02		2.7E-02	7.8E-06	2E-03	1.4E-02	I	PA
U-238	1.5E+00	7.9E+00		9.4E+00	2.7E-03	1E-02	7.1E-04	I	PE
Zr-93	0.0E+00	0.0E+00		0.0E+00	0.0E+00	9E-03	3.0E-01		PA

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PE=Performace Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

SOF= 2.7E+00

Base Case: SRS Silt Trenches LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	(N
	88-97 Volume (m3) 7.7E+02	98-70 Volume (m3) 8.6E+04	98-70 Volume (m3) 4.6E+04	Total Volume (m3) 1.3E+05					
Al-26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Am-241	1.1E-03	1.1E-01	1.6E-04	1.1E-01	8.1E-07	2.0E-03	4.1E-04	W	
Am-243	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ba-133	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
C-14	3.3E-04	5.6E-02	1.2E-02	6.8E-02	5.1E-07	9.8E-05	5.2E-03	W	
C-14 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cd-113m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cl-36	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cm-243	5.2E-03	0.0E+00	1.2E-03	6.4E-03	4.8E-08	4.9E-04	9.8E-05	W	
Cm-244	5.2E-03	4.2E-06	1.2E-03	6.4E-03	4.8E-08	4.9E-04	9.8E-05	W	
Co-60	2.7E-03	4.3E-01	7.0E-02	5.1E-01	3.8E-06	2.5E+92	1.6E-98	W	
Cs-135	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cs-137	3.6E-02	3.0E+00	8.5E+00	1.2E+01	8.7E-05	3.0E-01	2.9E-04	I	
Eu-152	0.0E+00	0.0E+00	1.3E-03	1.3E-03	1.0E-08				
Eu-154	0.0E+00	0.0E+00	9.3E-04	9.3E-04	7.0E-09				
H-3	6.4E+00	1.8E+01	2.3E-01	2.5E+01	1.9E-04	6.0E-04	3.1E-01	W	
I-129	1.3E-04	1.8E-06	5.1E-03	5.2E-03	4.0E-08	7.4E-08	5.4E-01	W	
K-40	0.0E+00	0.0E+00	2.5E-05	2.5E-05	1.9E-10				
Nb-93m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Nb-94	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ni-59	2.9E-04	4.8E-02	7.3E-05	4.9E-02	3.7E-07	3.0E+00	1.2E-07	I	
Ni-63	9.5E-04	1.3E-01	2.4E-03	1.3E-01	1.0E-06	8.0E+00	1.3E-07	I	
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	1.6E-07	2.6E-05	7.4E-03	7.4E-03	5.6E-08	4.9E-07	1.1E-01	W	
Pa-231	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	2.7E-03	4.6E-03	1.0E-02	1.7E-02	1.3E-07	9.8E-03	1.3E-05	W	
Pu-239	3.7E-04	8.8E-03	3.6E-04	9.5E-03	7.2E-08	7.0E-05	1.0E-03	W	
Pu-240	2.2E-03	1.6E-03	3.4E-04	4.1E-03	3.1E-08	1.0E-04	3.1E-04	W	
Pu-241	4.9E-04	8.3E-02	8.9E-08	8.3E-02	6.3E-07	4.9E-02	1.3E-05	W	
Pu-242	2.5E-07	4.2E-05	9.5E-10	4.2E-05	3.2E-10	4.9E-07	6.5E-04	W	
Pu-244	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Ra-226	3.8E-04	0.0E+00	1.6E-03	2.0E-03	1.5E-08	8.0E-05	1.9E-04	I	
Ra-228	4.0E-04	0.0E+00	0.0E+00	4.0E-04	3.0E-09	1.0E+93	3.0E-102	I	
Se-79	6.2E-10	1.0E-07	0.0E+00	1.0E-07	7.9E-13	2.5E-06	3.2E-07	W	
Sm-151	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sn-121m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sn-126	2.0E-05	3.3E-03	0.0E+00	3.4E-03	2.5E-08	8.0E-05	3.2E-04	I	
Sr-90	2.5E-02	8.3E-01	1.3E+01	1.4E+01	1.1E-04	1.0E+00	1.1E-04	I	
Tc-99	1.4E-04	1.8E-02	2.3E-03	2.0E-02	1.5E-07	1.5E-05	1.0E-02	W	
Th-229	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Th-230	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Th-232	0.0E+00	0.0E+00	3.6E-05	3.6E-05	2.7E-10				
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-233	3.0E-09	5.0E-07	9.7E-04	9.7E-04	7.4E-09	7.0E-04	1.1E-05	I	
U-234	1.9E-03	3.4E-03	4.9E-03	1.0E-02	7.7E-08	1.0E-03	7.7E-05	I	
U-235	2.6E-04	2.2E-04	4.9E-06	4.9E-04	3.7E-09	6.0E-04	6.2E-06	I	
U-236	1.3E-09	2.1E-07	0.0E+00	2.1E-07	1.6E-12	2.0E-02	8.1E-11	I	
U-238	2.8E-03	5.5E-03	5.7E-03	1.4E-02	1.1E-07	5.0E-03	2.1E-05	I	
Zr-93	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
						SOF=	9.8E-01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PE=Performace Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Alternative Scenario: Hanford 200 Area Base Case LLW + Alternative Scenario LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Alternative Scenario LLW Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3) 1.1E+05	98-70 Volume (m3) 2.7E+05	98-70 Volume (m3) 1.4E+04	98-70 Volume (m3) 7.2E+05	Total Volume (m3) 1.1E+06					
Al-26	0.0E+00	0.0E+00	0.0E+00	3.7E-06	3.7E-06	3.3E-12	5.0E-05	6.6E-08	I	PB
Am-241	3.2E+01	4.7E+02	1.0E-02	2.2E+01	5.2E+02	4.7E-04	9.0E-01	5.2E-04	I	WAC, Cat 3
Am-243	1.6E-02	8.2E-01	0.0E+00	1.1E+01	1.2E+01	1.0E-05	9.0E-04	1.2E-02	I	PB
Ba-133	1.7E-04	1.9E-02	0.0E+00	1.2E+02	1.2E+02	1.0E-04	3.0E+02	3.5E-07	I	PB
C-14	2.0E+02	1.7E+02	2.0E-01	4.2E+02	7.9E+02	7.2E-04	9.1E-02	7.9E-03	I	WAC, Cat I
C-14 mu	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.1E-01	0.0E+00	I	WAC, Cat I
Cd-113m	0.0E+00	0.0E+00	0.0E+00	5.3E-01	5.3E-01	4.7E-07	1.0E+00	4.7E-07	I	PB
Cl-36	3.7E-07	7.8E-08	0.0E+00	1.7E+02	1.7E+02	1.5E-04	1.0E-01	1.5E-03	I	WAC, Cat 3
Cm-243	1.4E-02	1.3E+00	0.0E+00	1.4E-02	1.4E+00	1.2E-06	8.0E-01	1.5E-06	I	PB
Cm-244	6.8E-01	4.3E+00	0.0E+00	4.1E+03	4.1E+03	3.7E-03	2.0E+00	1.9E-03	I	PB
Co-60	9.9E+05	1.6E+05	1.3E+02	1.2E+07	1.3E+07	1.2E+01	3.0E+04	3.9E-04	I	PB
Cs-135	0.0E+00	0.0E+00	0.0E+00	7.8E-04	7.8E-04	7.1E-10	1.7E-05	4.2E-05	W	PB
Cs-137	8.6E+05	1.8E+07	7.7E+01	7.3E+05	1.9E+07	1.7E+01	1.2E+04	1.4E-03	I	WAC, Cat 3
Eu-152	1.3E+03	4.7E-04	1.5E-01	3.8E+04	3.9E+04	3.5E-02	2.0E+01	1.8E-03	I	PB
Eu-154	1.9E+03	2.6E-01	5.6E-02	1.7E+03	3.7E+03	3.3E-03	4.0E+02	8.2E-06	I	PB
H-3	8.8E+04	2.1E+05	4.0E+00	9.8E+06	1.0E+07	9.1E+00	9.9E+04	9.2E-05	I	WAC, Cat I
I-129	9.8E-02	1.4E+00	0.0E+00	2.8E-01	1.8E+00	1.6E-06	8.5E-03	1.9E-04	I	WAC, Cat I
K-40	3.3E-04	3.4E-04	3.7E-02	3.4E+01	3.4E+01	3.1E-05	7.0E-04	4.4E-02	I	PB
Nb-93m	0.0E+00	0.0E+00	0.0E+00	4.6E+02	4.6E+02	4.2E-04	4.0E+03	1.0E-07	I	PB
Nb-94	0.0E+00	0.0E+00	0.0E+00	2.1E+01	2.1E+01	1.9E-05	9.0E-05	2.1E-01	I	PB
Ni-59	4.9E+03	4.3E+00	0.0E+00	6.2E+04	6.7E+04	6.1E-02	3.0E+00	2.0E-02	I	PB
Ni-63	8.2E+05	2.2E+03	0.0E+00	3.1E+06	4.0E+06	3.6E+00	2.0E+05	1.8E-05	I	WAC, Cat 3 (act
Ni-63 mu	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	2.7E-02	5.0E-01	0.0E+00	3.6E+00	4.1E+00	3.7E-06	4.0E-04	9.3E-03	I	PB
Pa-231	4.5E-07	5.1E-05	0.0E+00	1.2E-01	1.2E-01	1.1E-07	1.0E-04	1.1E-03	I	WAC, Cat I
Pu Wemp	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	1.4E+02	2.6E+00	0.0E+00	5.3E+00	1.5E+02	1.3E-04	1.1E-02	1.2E-02	W	PB
Pu-239	4.3E+01	3.3E+02	2.4E-02	1.5E+01	3.9E+02	3.5E-04	4.0E-01	8.7E-04	I	WAC, Cat 3
Pu-240	1.4E+01	1.1E+02	2.4E-03	1.8E+01	1.4E+02	1.3E-04	6.0E-03	2.1E-02	I	PB
Pu-241	3.3E+02	3.7E+02	2.4E-01	2.1E+01	7.2E+02	6.5E-04	2.0E-01	3.3E-03	I	PB
Pu-242	1.0E-03	2.6E-02	0.0E+00	4.9E-03	3.2E-02	2.9E-08	6.0E-03	4.8E-06	I	PB
Pu-244	3.8E-06	4.3E-04	0.0E+00	1.6E-06	4.3E-04	3.9E-10	4.0E-04	9.8E-07	I	PB
Ra-226	6.4E-04	6.7E-02	0.0E+00	8.0E+01	8.0E+01	7.2E-05	4.0E-02	1.8E-03	I	WAC, Cat 3
Ra-228	0.0E+00	0.0E+00	1.6E-02	2.5E+00	2.5E+00	2.2E-06	4.0E+03	5.6E-10	I	PB
Se-79	7.8E-05	1.7E-03	0.0E+00	6.0E-04	2.3E-03	2.1E-09	1.7E-06	1.3E-03	W	PB
Sm-151	0.0E+00	0.0E+00	0.0E+00	1.2E+02	1.2E+02	1.1E-04	2.0E+02	5.6E-07	I	PB
Sn-121m	0.0E+00	0.0E+00	0.0E+00	8.1E+01	8.1E+01	7.3E-05	2.0E+01	3.6E-06	I	PB
Sn-126	0.0E+00	0.0E+00	0.0E+00	4.1E-05	4.1E-05	3.7E-11	8.0E-05	4.6E-07	I	PB
Sr-90	9.9E+05	2.0E+07	7.5E+01	4.1E+05	2.2E+07	2.0E+01	5.4E+04	3.6E-04	I	WAC, Cat 3
Tc-99	7.1E+00	1.3E+02	1.2E-03	2.7E+01	1.7E+02	1.5E-04	2.3E-02	6.6E-03	I	WAC, Cat I
Th-229	2.1E-05	2.4E-03	0.0E+00	5.4E-01	5.4E-01	4.9E-07	5.0E-04	9.8E-04	I	PB
Th-230	5.3E-05	4.8E-03	1.2E-03	4.8E+00	4.8E+00	4.4E-06	2.0E-03	2.2E-03	I	WAC, Cat I
Th-232	1.1E-01	1.4E-02	2.5E-01	6.9E+00	7.3E+00	6.6E-06	2.0E-02	3.3E-04	I	WAC, Cat 3
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.4E-05	2.7E-03	0.0E+00	6.6E-02	6.9E-02	6.2E-08	2.0E-03	3.1E-05	I	PB
U-233	3.2E-01	5.5E+00	2.4E-03	3.0E+00	8.8E+00	8.0E-06	7.0E-04	1.1E-02	I	PB
U-234	7.5E+01	2.4E+01	1.0E-02	1.3E+03	1.4E+03	1.3E-03	2.0E+00	6.4E-04	I	WAC, Cat 3
U-235	1.6E+00	8.4E-01	8.7E-03	9.9E+02	9.9E+02	8.9E-04	5.0E-01	1.8E-03	I	WAC, Cat 3
U-236	5.8E-02	1.2E+00	0.0E+00	1.4E-01	1.4E+00	1.3E-06	2.0E-02	6.3E-05	I	PB
U-238	6.3E+01	4.7E+01	1.1E+00	1.4E+03	1.5E+03	1.4E-03	1.0E+00	1.4E-03	I	WAC, Cat 3
Zr-93	0.0E+00	0.0E+00	0.0E+00	1.8E+01	1.8E+01	1.6E-05	5.0E+00	3.2E-06	I	PB
							SOF=	3.8E-01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PB=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Alternative Scenario: LANL TA-54 Base Case LLW + Alternative Scenario LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Alternative Scenario LLW Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)
	88-97 Volume (m3)	98-70 Volume (m3)	98-70 Volume (m3)	98-70 Volume (m3)	Total Volume (m3)				
	4.3E+04	5.2E+05	3.7E+04	7.2E+05	1.3E+06				
Al-26	3.8E-08	0.0E+00	0.0E+00	3.7E-06	3.7E-06	2.8E-12	5E-05	5.6E-08	I
Am-241	2.2E+00	9.1E+01	0.0E+00	2.2E+01	1.2E+02	8.7E-05	7E-03	1.2E-02	I
Am-243	2.9E-04	2.4E-03	0.0E+00	1.1E+01	1.1E+01	8.2E-06	9E-04	9.1E-03	I
Ba-133	2.5E+01	1.4E+03	0.0E+00	1.2E+02	1.6E+03	1.2E-03	3E+02	3.9E-06	I
C-14	4.6E-02	1.3E+00	0.0E+00	4.2E+02	4.2E+02	3.2E-04	3E-03	1.1E-01	I
C-14 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3E-02	0.0E+00	
Cd-113m	5.1E-01	0.0E+00	0.0E+00	5.3E-01	1.0E+00	7.9E-07	1E+00	7.9E-07	I
Cl-36	5.9E-04	1.5E-02	0.0E+00	1.7E+02	1.7E+02	1.3E-04	2E-04	6.4E-01	I
Cm-243	0.0E+00	0.0E+00	0.0E+00	1.4E-02	1.4E-02	1.1E-08	8E-01	1.3E-08	I
Cm-244	0.0E+00	0.0E+00	0.0E+00	4.1E+03	4.1E+03	3.1E-03	2E+00	1.5E-03	I
Co-60	8.9E+02	9.9E+02	0.0E+00	1.2E+07	1.2E+07	8.8E+00	3E+04	2.9E-04	I
Cs-135	1.2E-03	7.6E-02	0.0E+00	7.8E-04	7.8E-02	5.9E-08	2E-01	2.9E-07	I
Cs-137	8.4E+01	2.4E+01	0.0E+00	7.3E+05	7.3E+05	5.5E-01	9E-03	6.1E+01	I
Eu-152	2.9E-01	7.0E-01	0.0E+00	3.8E+04	3.8E+04	2.8E-02	2E+01	1.4E-03	I
Eu-154	2.2E-01	2.7E+00	0.0E+00	1.7E+03	1.7E+03	1.3E-03	4E+02	3.3E-06	I
H-3	4.3E+05	2.1E+05	0.0E+00	9.8E+06	1.0E+07	7.9E+00	7E+01	1.1E-01	I
I-129	1.5E-06	0.0E+00	0.0E+00	2.8E-01	2.8E-01	2.1E-07	2E-03	1.1E-04	I
K-40	5.1E-03	3.5E-01	0.0E+00	3.4E+01	3.4E+01	2.6E-05	7E-04	3.7E-02	I
Nb-93m	0.0E+00	0.0E+00	0.0E+00	4.6E+02	4.6E+02	3.5E-04	4E+03	8.8E-08	I
Nb-94	2.8E-02	0.0E+00	0.0E+00	2.1E+01	2.1E+01	1.6E-05	9E-05	1.7E-01	I
Ni-59	1.8E-02	3.7E-01	0.0E+00	6.2E+04	6.2E+04	4.7E-02	3E+00	1.6E-02	I
Ni-63	1.1E-03	6.4E-02	0.0E+00	3.1E+06	3.1E+06	2.4E+00	8E+00	3.0E-01	I
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
Np-237	6.7E-04	3.2E-03	0.0E+00	3.6E+00	3.6E+00	2.7E-06	4E-04	6.8E-03	I
Pa-231	9.0E-09	0.0E+00	0.0E+00	1.2E-01	1.2E-01	9.3E-08	2E-04	4.7E-04	I
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
Pu-238	5.2E+00	1.8E+02	0.0E+00	5.3E+00	1.9E+02	1.4E-04	7E-02	2.1E-03	I
Pu-239	9.6E+00	3.7E+02	0.0E+00	1.5E+01	3.9E+02	3.0E-04	6E-03	4.9E-02	I
Pu-240	2.9E-01	3.0E+00	0.0E+00	1.8E+01	2.2E+01	1.6E-05	6E-03	2.7E-03	I
Pu-241	4.1E+00	2.8E+01	0.0E+00	2.1E+01	5.4E+01	4.1E-05	2E-01	2.0E-04	I
Pu-242	3.2E-04	5.4E-03	0.0E+00	4.9E-03	1.1E-02	8.0E-09	6E-03	1.3E-06	I
Pu-244	0.0E+00	0.0E+00	0.0E+00	1.6E-06	1.6E-06	1.2E-12	4E-04	3.0E-09	I
Ra-226	2.6E-02	2.1E-01	0.0E+00	8.0E+01	8.0E+01	6.1E-05	8E-05	7.6E-01	I
Ra-228	0.0E+00	0.0E+00	0.0E+00	2.5E+00	2.5E+00	1.9E-06	4E+03	4.7E-10	I
Se-79	2.5E-06	0.0E+00	0.0E+00	6.0E-04	6.0E-04	4.6E-10	2E-01	2.3E-09	I
Sm-151	7.0E-02	0.0E+00	0.0E+00	1.2E+02	1.2E+02	9.4E-05	2E+02	4.7E-07	I
Sn-121m	0.0E+00	0.0E+00	0.0E+00	8.1E+01	8.1E+01	6.1E-05	2E+01	3.1E-06	I
Sn-126	0.0E+00	0.0E+00	0.0E+00	4.1E-05	4.1E-05	3.1E-11	8E-05	3.9E-07	I
Sr-90	7.3E+00	2.2E+01	0.0E+00	4.1E+05	4.1E+05	3.1E-01	2E-02	1.5E+01	I
Tc-99	5.6E-02	2.4E+00	0.0E+00	2.7E+01	2.9E+01	2.2E-05	1E-02	2.2E-03	I
Th-229	2.8E-04	1.7E-02	0.0E+00	5.4E-01	5.6E-01	4.2E-07	5E-04	8.4E-04	I
Th-230	2.8E-06	1.6E-04	0.0E+00	4.8E+00	4.8E+00	3.7E-06	3E-04	1.2E-02	I
Th-232	2.3E-02	1.4E+00	0.0E+00	6.9E+00	8.3E+00	6.3E-06	1E-04	6.3E-02	I
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			
U-232	1.5E-03	8.5E-02	0.0E+00	6.6E-02	1.5E-01	1.2E-07	2E-03	5.8E-05	I
U-233	8.5E-03	4.4E-01	0.0E+00	3.0E+00	3.5E+00	2.6E-06	7E-04	3.8E-03	I
U-234	8.2E-01	1.4E+01	1.0E+01	1.3E+03	1.3E+03	1.0E-03	1E-03	1.0E+00	I
U-235	3.5E-01	2.9E+00	5.1E-01	9.9E+02	9.9E+02	7.5E-04	1E-03	7.5E-01	I
U-236	2.6E-03	0.0E+00	0.0E+00	1.4E-01	1.5E-01	1.1E-07	2E-02	5.5E-06	I
U-238	2.8E+00	5.6E+01	1.1E+01	1.4E+03	1.5E+03	1.1E-03	6E-03	1.9E-01	I
Zr-93	2.8E-05	0.0E+00	0.0E+00	1.8E+01	1.8E+01	1.3E-05	5E+00	2.7E-06	I
							SOF=	8.1E+01	

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PB=Performace Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Alternative Scenario: NTS Areas 3 and 5 Base Case LLW + Alternative Scenario LLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	Alternative Scenario LLW Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3) 1.9E+05	98-70 Volume (m3) 6.5E+04	98-70 Volume (m3) 4.1E+05	98-70 Volume (m3) 7.2E+05	Total Volume (m3) 1.4E+06					
Al-26	8.4E-06	1.2E-06	0.0E+00	3.7E-06	1.3E-05	9.6E-12	5E-05	1.9E-07	I	PE
Am-241	2.2E+01	3.1E+00	1.1E+01	2.2E+01	5.8E+01	4.2E-05	7E-03	6.0E-03	I	PE
Am-243	8.3E-03	1.2E-03	0.0E+00	1.1E+01	1.1E+01	7.8E-06	9E-04	8.6E-03	I	PE
Ba-133	1.3E+01	1.8E+00	0.0E+00	1.2E+02	1.3E+02	9.4E-05	3E+02	3.1E-07	I	PE
C-14	6.3E+01	8.9E+00	0.0E+00	4.2E+02	4.9E+02	3.6E-04	6E-03	5.9E-02	I	WAC
C-14 am	3.5E-07	5.0E-08	0.0E+00	0.0E+00	4.1E-07	2.9E-13	2E-02	1.5E-11		Assumption
Cd-113m	1.7E+00	1.3E-01	7.6E-02	5.3E-01	2.5E+00	1.8E-06	1E+00	1.8E-06	I	PE
Cl-36	4.4E-02	6.2E-03	0.0E+00	1.7E+02	1.7E+02	1.2E-04	3E-01	4.1E-04	I	WAC
Cm-243	2.7E-02	3.8E-03	0.0E+00	1.4E-02	4.5E-02	3.2E-08	8E-01	4.0E-08	I	PE
Cm-244	3.0E-01	4.2E-02	0.0E+00	4.1E+03	4.1E+03	3.0E-03	2E+00	1.5E-03	I	PE
Co-60	1.5E+05	2.1E+04	1.0E-01	1.2E+07	1.2E+07	8.5E+00	3E+04	2.8E-04	I	PE
Cs-135	1.8E-03	2.6E-04	0.0E+00	7.8E-04	2.8E-03	2.0E-09	2E-01	1.0E-08	I	PE
Cs-137	8.0E+05	1.1E+05	3.1E+01	7.3E+05	1.6E+06	1.2E+00	9E+00	1.3E-01	I	WAC
Eu-152	1.6E+02	2.1E+01	1.2E+00	3.8E+04	3.8E+04	2.7E-02	2E+01	1.4E-03	I	PE
Eu-154	9.7E+02	2.2E+01	2.1E-01	1.7E+03	2.7E+03	2.0E-03	4E+02	4.9E-06	I	PE
H-3	2.9E+06	1.1E+04	2.8E+00	9.8E+06	1.3E+07	9.2E+00	2E+05	4.6E-05	I	WAC
I-129	6.6E-02	9.3E-03	0.0E+00	2.8E-01	3.5E-01	2.5E-07	2E-03	1.3E-04	I	PE
K-40	3.5E-01	4.8E-02	0.0E+00	3.4E+01	3.4E+01	2.5E-05	7E-04	3.5E-02	I	PE
Nb-93m	5.0E+00	7.1E-01	0.0E+00	4.6E+02	4.7E+02	3.4E-04	4E+03	8.5E-08	I	PE
Nb-94	2.3E-01	3.2E-02	0.0E+00	2.1E+01	2.1E+01	1.5E-05	9E-05	1.7E-01	I	PE
Ni-59	7.2E+02	1.0E+02	0.0E+00	6.2E+04	6.3E+04	4.6E-02	3E+00	1.5E-02	I	PE
Ni-63	3.3E+04	4.6E+03	0.0E+00	3.1E+06	3.2E+06	2.3E+00	7E+03	3.3E-04	I	WAC
Ni-63 am	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	3.9E-02	3.8E-03	0.0E+00	3.6E+00	3.6E+00	2.6E-06	4E-04	6.6E-03	I	PE
Pa-231	1.6E-01	2.2E-02	1.8E+01	1.2E-01	1.9E+01	1.3E-05	2E-04	6.7E-02	I	PE
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	9.4E+01	4.8E-01	2.2E+01	5.3E+00	1.2E+02	8.8E-05	7E-02	1.3E-03	I	PE
Pu-239	1.1E+02	2.7E+00	1.9E+02	1.5E+01	3.3E+02	2.3E-04	6E-03	3.9E-02	I	PE
Pu-240	2.6E+01	6.3E-01	2.6E-01	1.8E+01	4.5E+01	3.3E-05	6E-03	5.4E-03	I	PE
Pu-241	5.4E+02	2.8E+00	0.0E+00	2.1E+01	5.7E+02	4.1E-04	2E-01	2.0E-03	I	PE
Pu-242	1.7E+02	1.8E-04	0.0E+00	4.9E-03	1.7E+02	1.2E-04	6E-03	2.0E-02	I	PE
Pu-244	3.6E-06	5.2E-07	0.0E+00	1.6E-06	5.7E-06	4.1E-12	4E-04	1.0E-08	I	PE
Ra-226	3.3E+01	4.6E+00	3.8E+03	8.0E+01	3.9E+03	2.8E-03	4E-02	7.0E-02	I	WAC
Ra-228	2.1E-02	3.0E-03	2.3E+00	2.5E+00	4.8E+00	3.5E-06	4E+03	8.7E-10	I	PE
Se-79	1.4E-03	2.0E-04	0.0E+00	6.0E-04	2.2E-03	1.6E-09	2E-01	7.8E-09	I	PE
Sm-151	2.0E+01	1.6E+00	8.2E-01	1.2E+02	1.5E+02	1.1E-04	2E+02	5.3E-07	I	PE
Sn-121m	2.1E+00	2.1E-01	0.0E+00	8.1E+01	8.3E+01	6.0E-05	2E+01	3.0E-06	I	PE
Sn-126	9.4E-05	1.3E-05	0.0E+00	4.1E-05	1.5E-04	1.1E-10	8E-05	1.3E-06	I	PE
Sr-90	9.3E+05	1.3E+05	2.8E+01	4.1E+05	1.5E+06	1.1E+00	4E+01	2.6E-02	I	WAC
Tc-99	7.7E+00	9.2E-01	1.7E+01	2.7E+01	5.3E+01	3.8E-05	2E-02	1.9E-03	I	PE
Th-229	1.8E-04	2.6E-05	0.0E+00	5.4E-01	5.4E-01	3.9E-07	5E-04	7.8E-04	I	PE
Th-230	1.0E+01	1.4E+00	1.1E+03	4.8E+00	1.2E+03	8.3E-04	8E-02	1.0E-02	I	WAC
Th-232	2.3E+01	2.0E-01	1.6E+02	6.9E+00	1.9E+02	1.3E-04	2E-02	6.7E-03	I	WAC
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.0E-02	2.9E-03	0.0E+00	6.6E-02	8.9E-02	6.4E-08	2E-03	3.2E-05	I	PE
U-233	1.5E+00	3.8E-02	3.6E-02	3.0E+00	4.6E+00	3.3E-06	7E-04	4.8E-03	I	PE
U-234	9.1E+01	3.1E+00	1.9E+03	1.3E+03	3.3E+03	2.4E-03	1E+00	2.4E-03	I	WAC
U-235	3.6E+02	1.6E-01	8.6E+01	9.9E+02	1.4E+03	1.0E-03	3E-01	3.4E-03	I	WAC
U-236	6.6E-02	9.3E-03	0.0E+00	1.4E-01	2.2E-01	1.6E-07	2E-02	7.9E-06	I	PE
U-238	9.2E+03	7.2E+00	1.9E+03	1.4E+03	1.3E+04	9.0E-03	2E+00	4.5E-03	I	WAC
Zr-93	1.9E-01	2.7E-02	0.0E+00	1.8E+01	1.8E+01	1.3E-05	5E+00	2.6E-06	I	PE
							SOF=	7.0E-01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario

NOTE 2: PE=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria

Alternative Scenario: Hanford 200 Area Base Case LLW + MLLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	MLLW Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3)	98-70 Volume (m3)	98-70 Volume (m3)	98-70 Volume (m3)	Total Volume (m3)					
	1.1E+05	2.7E+05	1.4E+04	3.0E+05	6.9E+05					
Al-26	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Am-241	3.2E+01	4.7E+02	1.0E-02	6.7E+01	5.7E+02	8.2E-04	9.0E-01	9.1E-04	I	WAC, Cat 3
Am-243	1.6E-02	8.2E-01	0.0E+00	0.0E+00	8.3E-01	1.2E-06	9.0E-04	1.3E-03	I	PE
Ba-133	1.7E-04	1.9E-02	0.0E+00	0.0E+00	2.0E-02	2.8E-08	3.0E+02	9.4E-11	I	PE
C-14	2.0E+02	1.7E+02	2.0E-01	0.0E+00	3.7E+02	5.4E-04	9.1E-02	5.9E-03	I	WAC, Cat I
C-14 sm	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Cd-113m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.0E+00	0.0E+00	I	PE
Cl-36	3.7E-07	7.8E-06	0.0E+00	0.0E+00	8.2E-06	1.2E-11	7.4E-07	1.6E-05	W	PE
Cm-243	1.4E-02	1.3E+00	0.0E+00	0.0E+00	1.4E+00	1.9E-06	8.0E-01	2.4E-06	I	PE
Cm-244	6.8E-01	4.3E+00	0.0E+00	0.0E+00	5.0E+00	7.2E-06	2.0E+00	3.6E-06	I	PE
Co-60	9.9E+05	1.6E+05	1.3E+02	6.9E+04	1.2E+06	1.8E+00	3.0E+04	5.9E-05	I	PE
Cs-135	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.7E-05	0.0E+00	W	PE
Cs-137	8.6E+05	1.8E+07	7.7E+01	5.4E+03	1.9E+07	2.7E+01	1.2E+04	2.2E-03	I	WAC, Cat 3
Eu-152	1.3E+03	4.7E-04	1.5E-01	3.1E-02	1.3E+03	1.9E-03	2.0E+01	9.5E-05	I	PE
Eu-154	1.9E+03	2.8E-01	5.6E-02	3.5E-04	1.9E+03	2.8E-03	4.0E+02	6.9E-06	I	PE
H-3	8.8E+04	2.1E+05	4.0E+00	5.8E+08	5.8E+08	8.3E+02	9.9E+04	8.4E-03	I	WAC, Cat I
I-129	9.8E-02	1.4E+00	0.0E+00	0.0E+00	1.5E+00	2.1E-06	8.5E-03	2.5E-04	I	WAC, Cat I
K-40	3.3E-04	3.4E-04	3.7E-02	0.0E+00	3.8E-02	5.5E-08	7.0E-04	7.8E-05	I	PE
Nb-93m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Nb-94	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.0E-05	0.0E+00	I	PE
Ni-59	4.9E+03	4.3E+00	0.0E+00	0.0E+00	4.9E+03	7.1E-03	3.0E+00	2.4E-03	I	PE
Ni-63	8.2E+05	2.2E+03	0.0E+00	0.0E+00	8.2E+05	1.2E+00	2.0E+05	5.9E-06	I	WAC, Cat 3 (act)
Ni-63 sm	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	2.7E-02	5.0E-01	0.0E+00	8.3E+01	8.3E+01	1.2E-04	7.0E-04	1.7E-01	I	WAC, Cat I
Pa-231	4.5E-07	5.1E-05	0.0E+00	7.7E-06	5.9E-05	8.5E-11	1.0E-04	8.5E-07	I	WAC, Cat I
Pu Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	1.4E+02	2.9E+00	0.0E+00	6.0E-01	1.4E+02	2.1E-04	1.1E-02	1.9E-02	W	PE
Pu-239	4.3E+01	3.3E+02	2.4E-02	3.2E+02	6.9E+02	9.9E-04	4.0E-01	2.5E-03	I	WAC, Cat 3
Pu-240	1.4E+01	1.1E+02	2.4E-03	2.3E+00	1.3E+02	1.8E-04	6.0E-03	3.0E-02	I	PE
Pu-241	3.3E+02	3.7E+02	2.4E-01	0.0E+00	7.0E+02	1.0E-03	2.0E-01	5.1E-03	I	PE
Pu-242	1.0E-03	2.8E-02	0.0E+00	0.0E+00	2.7E-02	3.9E-08	6.0E-03	6.6E-06	I	PE
Pu-244	3.8E-06	4.3E-04	0.0E+00	0.0E+00	4.3E-04	6.2E-10	4.0E-04	1.6E-06	I	PE
Ra-226	6.4E-04	5.7E-02	1.6E-02	3.7E-03	7.7E-02	1.1E-07	8.0E-05	1.4E-03	I	PE
Ra-228	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.0E+03	0.0E+00	I	PE
Se-79	7.8E-05	1.7E-03	0.0E+00	0.0E+00	1.7E-03	2.5E-09	1.7E-06	1.5E-03	W	PE
Sm-151	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E+02	0.0E+00	I	PE
Sn-121m	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.0E+01	0.0E+00	I	PE
Sn-126	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Sr-90	9.9E+05	2.0E+07	7.5E+01	8.2E+03	2.1E+07	3.1E+01	5.4E+04	5.7E-04	I	WAC, Cat 3
Tc-99	7.1E+00	1.3E+02	1.2E-03	6.0E+02	7.4E+02	1.1E-03	2.3E-02	4.6E-02	I	WAC, Cat I
Th-229	2.1E-05	2.4E-03	0.0E+00	3.3E-01	3.3E-01	4.8E-07	5.0E-04	9.5E-04	I	PE
Th-230	5.3E-05	4.0E-03	1.2E-03	1.9E+01	1.9E+01	2.7E-05	2.0E-03	1.3E-02	I	WAC, Cat I
Th-232	1.1E-01	1.4E-02	2.5E-01	3.4E-01	7.2E-01	1.0E-06	2.0E-02	5.2E-05	I	WAC, Cat 3
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.4E-05	2.7E-03	0.0E+00	0.0E+00	2.8E-03	4.0E-09	2.0E-03	2.0E-06	I	PE
U-233	3.2E-01	5.5E+00	2.4E-03	1.8E+00	7.7E+00	1.1E-05	7.0E-04	1.6E-02	I	PE
U-234	7.5E+01	2.4E+01	1.0E-02	1.9E+03	2.0E+03	2.9E-03	2.0E+00	1.5E-03	I	WAC, Cat 3
U-235	1.6E+00	8.4E-01	8.7E-03	2.7E-04	2.5E+00	3.6E-06	6.0E-04	6.0E-03	I	PE
U-236	5.8E-02	1.2E+00	0.0E+00	1.5E-01	1.4E+00	2.0E-06	2.0E-02	1.0E-04	I	PE
U-238	6.3E+01	4.7E+01	1.1E+00	6.9E+02	8.1E+02	1.2E-03	1.0E+00	1.2E-03	I	WAC, Cat 3
Zr-93	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.0E+00	0.0E+00	I	PE
							SOF=	3.4E-01		
NOTE 1:	A=Atmospheric Pathway; W=Groundwater Pathway; I=Intruder Scenario									
NOTE 2:	PE=Performace Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria									

Alternative Scenario: NTS Areas 3 and 5 Base Case LLW + MLLW

Nuclide	Past Disposed Radioactivity 1988-1997 (Ci)	Waste Management Disposed Radioactivity 1998-2070 (Ci)	Env. Restoration Disposed Radioactivity 1998-2070 (Ci)	MLLW Disposed Radioactivity 1998-2070 (Ci)	Total Disposed Radioactivity 1988-2070 (Ci)	Radioactivity Concentration (Ci/m3)	Site- and Radionuclide-Specific Concentration Limits (Ci/m3)	Ratio of Radioactivity Concentration to Limit	Pathway (NOTE 1)	Source (NOTE 2)
	88-97 Volume (m3) 1.9E+05	98-70 Volume (m3) 6.5E+04	98-70 Volume (m3) 4.1E+05	98-70 Volume (m3) 3.0E+05	Total Volume (m3) 9.7E+05					
Al-26	8.4E-06	1.2E-06	0.0E+00	0.0E+00	9.6E-06	9.9E-12	5E-05	2.0E-07	I	PE
Am-241	2.2E+01	3.1E+00	1.1E+01	6.7E+01	1.0E+02	1.1E-04	7E-03	1.5E-02	I	PE
Am-243	8.3E-03	1.2E-03	0.0E+00	0.0E+00	9.5E-03	9.7E-09	9E-04	1.1E-05	I	PE
Ba-133	1.3E+01	1.8E+00	0.0E+00	0.0E+00	1.4E+01	1.5E-05	3E+02	4.9E-08	I	PE
C-14	6.3E+01	8.9E+00	0.0E+00	0.0E+00	7.2E+01	7.4E-05	2E-03	3.7E-02	A	PE
C-14 anr	3.5E-07	5.0E-08	0.0E+00	0.0E+00	4.1E-07	4.2E-13	2E-02	2.1E-11		Assumption
Cd-113m	1.7E+00	1.3E-01	7.6E-02	0.0E+00	1.9E+00	2.0E-06	1E+00	2.0E-06	I	PE
Cl-36	4.4E-02	6.2E-03	0.0E+00	0.0E+00	5.0E-02	5.1E-08	2E-04	2.6E-04	I	PE
Cm-243	2.7E-02	3.8E-03	0.0E+00	0.0E+00	3.0E-02	3.1E-08	8E-01	3.9E-08	I	PE
Cm-244	3.0E-01	4.2E-02	0.0E+00	0.0E+00	3.4E-01	3.5E-07	2E+00	1.7E-07	I	PE
Co-60	1.5E+05	2.1E+04	1.0E-01	6.9E+04	2.4E+05	2.4E-01	3E+04	8.1E-06	I	PE
Cs-135	1.8E-03	2.6E-04	0.0E+00	0.0E+00	2.1E-03	2.1E-09	2E-01	1.1E-08	I	PE
Cs-137	8.0E+05	1.1E+05	3.1E+01	5.4E+03	9.2E+05	9.5E-01	9E+00	1.1E-01	I	WAC
Eu-152	1.6E+02	2.1E+01	1.2E+00	3.1E-02	1.8E+02	1.9E-04	2E+01	9.5E-06	I	PE
Eu-154	9.7E+02	2.2E+01	2.1E-01	3.5E-04	9.9E+02	1.0E-03	4E+02	2.5E-06	I	PE
H-3	2.9E+06	1.1E+04	2.8E+00	5.8E+08	5.8E+08	5.9E+02	2E+05	3.0E-03	I	WAC
I-129	6.6E-02	9.3E-03	0.0E+00	0.0E+00	7.5E-02	7.7E-08	2E-03	3.8E-05	I	PE
K-40	3.5E-01	4.8E-02	0.0E+00	0.0E+00	3.9E-01	4.0E-07	7E-04	5.8E-04	I	PE
Nb-93m	3.0E+00	7.1E-01	0.0E+00	0.0E+00	3.7E+00	3.9E-06	4E+03	1.5E-09	I	PE
Nb-94	2.3E-01	3.2E-02	0.0E+00	0.0E+00	2.6E-01	2.6E-07	9E-05	2.9E-03	I	PE
Ni-59	7.2E+02	1.0E+02	0.0E+00	0.0E+00	8.3E+02	8.5E-04	3E+00	2.8E-04	I	PE
Ni-63	3.3E+04	4.6E+03	0.0E+00	0.0E+00	3.7E+04	3.8E-02	8E+00	4.8E-03	I	PE
Ni-63 anr	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Np-237	3.9E-02	3.8E-03	0.0E+00	8.3E+01	8.3E+01	8.5E-05	2E-02	4.3E-03	I	WAC
Pa-231	1.8E-01	2.2E-02	1.8E+01	7.7E-06	1.8E+01	1.9E-05	2E-04	9.5E-02	I	PE
Pa Weap	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Pu-238	9.4E+01	4.8E-01	2.2E+01	6.0E-01	1.2E+02	1.2E-04	7E-02	1.7E-03	I	PE
Pu-239	1.1E+02	2.7E+00	1.9E+02	3.2E+02	6.3E+02	6.4E-04	6E-03	1.1E-01	I	PE
Pu-240	2.6E+01	6.3E-01	2.6E-01	2.3E+00	2.9E+01	3.0E-05	6E-03	5.0E-03	I	PE
Pu-241	3.4E+02	2.8E+00	0.0E+00	0.0E+00	3.4E+02	3.6E-04	2E-01	2.8E-03	I	PE
Pu-242	1.7E+02	1.8E-04	0.0E+00	0.0E+00	1.7E+02	1.7E-04	6E-03	2.8E-02	I	PE
Pu-244	3.6E-06	5.2E-07	0.0E+00	0.0E+00	4.2E-06	4.3E-12	4E-04	1.1E-08	I	PE
Ra-226	3.3E+01	4.6E+00	3.8E+03	3.7E-03	3.8E+03	3.9E-03	4E-02	9.8E-02	I	WAC
Ra-228	2.1E-02	3.0E-03	2.3E+00	0.0E+00	2.4E+00	2.4E-06	4E+03	6.1E-10	I	PE
Se-79	1.4E-03	2.0E-04	0.0E+00	0.0E+00	1.6E-03	1.6E-09	2E-01	8.1E-09	I	PE
Sm-151	2.0E+01	1.6E+00	8.2E-01	0.0E+00	2.2E+01	2.3E-05	2E+02	1.2E-07	I	PE
Sn-121m	2.1E+00	2.1E-01	0.0E+00	0.0E+00	2.3E+00	2.4E-06	2E+04	1.2E-07	I	PE
Sn-126	9.4E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-04	1.1E-10	8E-05	1.4E-06	I	PE
Sr-90	9.3E+05	1.3E+05	2.8E+01	8.2E+03	1.1E+06	1.1E+00	4E+01	2.7E-02	I	WAC
Tc-99	7.7E+00	9.2E-01	1.7E+01	6.0E+02	6.2E+02	6.4E-04	2E-02	3.2E-02	I	PE
Th-229	1.8E-04	2.8E-05	0.0E+00	3.3E-01	3.3E-01	3.4E-07	5E-04	6.8E-04	I	PE
Th-230	1.0E+01	1.4E+00	1.1E+03	1.9E+01	1.2E+03	1.2E-03	8E-02	1.5E-02	I	WAC
Th-232	2.3E+04	2.0E-01	1.6E+02	3.4E-04	1.8E+02	1.9E-04	2E-02	9.3E-03	I	WAC
U nat	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
U-232	2.0E-02	2.9E-03	0.0E+00	0.0E+00	2.3E-02	2.4E-08	2E-03	1.2E-05	I	PE
U-233	1.5E+00	3.8E-02	3.6E-02	1.8E+00	3.4E+00	3.5E-06	7E-04	5.1E-03	I	PE
U-234	9.1E+01	3.1E+00	1.9E+03	1.9E+03	3.9E+03	4.0E-03	1E+00	4.0E-03	I	WAC
U-235	3.6E+02	1.6E-01	8.6E+01	2.7E-04	4.4E+02	4.5E-04	1E-01	1.5E-03	I	WAC
U-236	6.8E-02	9.3E-03	0.0E+00	1.5E-01	2.2E-01	2.3E-07	2E-02	1.1E-05	I	PE
U-238	9.2E+03	7.2E+00	1.9E+03	6.9E+02	1.2E+04	1.2E-02	2E+00	6.0E-03	I	WAC
Zr-93	1.9E-01	2.7E-02	0.0E+00	0.0E+00	2.2E-01	2.2E-07	5E+00	4.5E-08	I	PE
				1.6E+05			SOF=	6.1E-01		

NOTE 1: A=Atmospheric Pathway; W=Groundwater Pathway; Intruder Scenario

NOTE 2: PE=Performance Evaluation; PA=Performance Assessment; WAC=Waste Acceptance Criteria