

# EXHIBIT F

**Table E-1 of DOE's 2015 Final  
Surplus Plutonium Disposition SEIS  
(DOE EIS-0283-S2) (DOE's 2015 EIS),  
entitled "Offsite Transport Truck  
Transportation Route Characteristics"**

# EXHIBIT F

## Appendix E – Evaluation of Human Health Effects from Transportation

Table E–1 Offsite Transport Truck Route Characteristics

Origin	Destination	Nominal Distance (kilometers)	Distance Traveled in Zones (kilometers)			Population Density in Zone <sup>a</sup> (number per square kilometer)			Number of Affected Persons <sup>b</sup>
			Rural	Suburban	Urban	Rural	Suburban	Urban	
Pantex, TX	SRS	2,184	1,482	621	81	16.7	427.4	2,946.6	844,147
Pantex, TX	LANL	574	526	40	8	8.0	452.1	3,060.7	76,539
SRS	Y-12	633	304	292	37	25.7	481.5	3,154.8	425,642
LANL	Y-12	2,372	1,848	465	59	13.5	370.6	2,866.5	587,874
SRS/LANL <sup>c</sup>	LANL/SRS <sup>c</sup>	2,798	2,015	683	100	14.6	429.2	2,974.9	992,627
SRS	WIPP	2,448	1,732	651	65	17.1	409.7	2,943.4	777,585
LANL	WIPP	597	554	38	5	7.4	378.2	2,582.5	49,414
SRS	NNSS	3,879	3,003	769	107	13.3	436.6	3,007.3	1,113,816
LANL	NNSS	1,250	1,082	132	36	11.4	516.8	4,502.9	387,356
Piketon, OH <sup>d</sup>	Richland, WA <sup>e</sup>	3,768	3,053	648	67	12.9	369.3	2,611.3	726,407
Richland, WA <sup>e</sup>	SRS	4,256	3,253	885	118	13.6	424.9	2,888.7	1,218,892
SRS	Sequoyah Nuclear Plant	508	231	240	37	26.3	523.4	3,161.5	396,561
SRS	Browns Ferry Nuclear Plant	724	389	298	37	24.3	428.1	2,885.8	388,475
SRS	Generic reactor <sup>f</sup>	4,405	3,372	919	114	13.3	419.1	2,897.6	1,216,999

LANL = Los Alamos National Laboratory; NNSS = Nevada National Security Site; OH = Ohio; Pantex = Pantex Plant; SRS = Savannah River Site; TX = Texas; WA = Washington; WIPP = Waste Isolation Pilot Plant; Y-12 = Y-12 National Security Complex.

<sup>a</sup> Population densities have been projected to 2020 using state-level data from the 2010 census (Census 2010) and assuming state population growth rates from 2000 to 2010 continue to 2020.

<sup>b</sup> For offsite shipments, the estimated number of persons residing within 800 meters (0.5 miles) along the transportation route, projected to 2020.

<sup>c</sup> Shipments of plutonium materials would be made from SRS to LANL and from LANL to SRS, depending on the pit disassembly and conversion option.

<sup>d</sup> Shipments of depleted uranium hexafluoride may also be made from the Paducah Gaseous Diffusion Plant at Paducah, Kentucky, but only travel from the Portsmouth Gaseous Diffusion Plant at Piketon, Ohio, was analyzed because this would conservatively estimate the transportation impacts associated with this material.

<sup>e</sup> The AREVA fuel fabrication plant that would convert depleted uranium hexafluoride to depleted uranium oxide is located at Richland, Washington.

<sup>f</sup> For purposes of analysis, it was assumed that the generic commercial nuclear power reactor would be located at the Hanford Reservation, Washington, to maximize the distance traveled in order to envelop impacts related to shipping to other possible commercial nuclear power reactor sites.

Note: To convert from kilometers to miles, multiply by 0.6214; to convert from number per square kilometer to number per square mile, multiply by 2.59. Rounded to nearest kilometer.