

Transportation data call for use in the transportation analysis to be included in the SPD SEIS.

1. Assuming up to 6 MT of non-pit plutonium is processed and ultimately shipped to WIPP for disposal and up to 9 MT of pit plutonium is processed into MOX fuel in PDCF. The number of shipments of TRU waste estimated for each option should include all TRU waste that could be generated on the site related to the option including any TRU waste that may come out of the WSB related to that option.

Shipment Route	Estimated Number of Shipments	Mode of Transportation (Commercial or SST/SGT)	Form of Material being Shipped	Estimated Isotopic Breakdown of Material in Shipment	Shipping Container to be used
TRU waste from SRS to WIPP through direct disposal to WIPP option (prepare in K and package for shipment in E Area) (Note: This is for 6 MT of non-pit Pu shipped directly to WIPP)	1156 (Based on 2 TRUPACT-II and 1 HalfPACT/truck, 35 standard pipe overpacks/truck, 14 standard pipe overpacks/TRUPACT-II and 7 standard pipe overpacks/HalfPACT)	Commercial by truck	Solid waste in standard pipe overpack	197 g KIS Pu per standard pipe overpack	TRUPACT-II and HalfPACT
Additional TRU waste from SRS to WIPP generated by H-Canyon operations for up to 6MT of non-pit plutonium					
Additional TRU waste generated from approximately 5 MT of non pit plutonium through MFFF and 9 MT plutonium from surplus pits	85 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	20 g WG Pu per drum	TRUPACT-II
	129 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	10 g KIS Pu per drum	TRUPACT-II
	214 Total				
Additional TRU waste generated from processing up to 9 MT of pit plutonium in a separate PDCF	85 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	20 g WG Pu per drum	TRUPACT-II
Additional TRU	85	Commercial	Solid waste	20 g WG	TRUPACT-

waste generated from processing up to 9 MT of pit plutonium in a combined PDCF/PuP	(Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	by truck	in 55-gallon drums with filtered bags	Pu per drum	II
Additional TRU waste generated from processing up to 6 MT of non-pit plutonium in a separate PuP	155 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	10 g KIS Pu per drum	TRUPACT-II
Additional TRU waste generated from processing up to 6 MT of non-pit plutonium in a combined PDCF/PuP	155 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	10 g KIS Pu per drum	TRUPACT-II

2. Assuming up to 48 MT (assumes 34MT of Pu from previous decisions + 9MT of Pu from pits included in the SPD SEIS + 5MT of Pu from non-pit plutonium included in the SPD SEIS) of plutonium could be made into MOX fuel with any additional TRU waste that may be generated during these activities shipped to WIPP. Transportation of MOX fuel to TVA reactors would be analyzed for entire amount of MOX fuel since transportation to these potential sites is not included in previous NEPA analyses.

Shipment Route	Estimated Number of Shipments	Mode of Transportation (Commercial or SST/SGT)	Form of Material being Shipped	Estimated Isotopic Breakdown of Material in Shipment	Shipping Container to be used
TRU waste from SRS to WIPP assuming a combined PDCF/PuP	406 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	20 g WG Pu per drum	TRUPACT-II
	129 (assumes 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	10 g KIS Pu per drum	TRUPACT-II
	535 Total				
TRU waste from SRS to WIPP assuming separate PDCF and PuP	406 (Based on 14 drums/TRUPACT-II, 3 TRUPACT-II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	20 g WG Pu per drum	TRUPACT-II

	129 (Based on 14 drums/TRUPACT- II, 3 TRUPACT- II/truck)	Commercial by truck	Solid waste in 55-gallon drums with filtered bags	10 g KIS Pu per drum	TRUPACT-II
	535 Total				
Fresh fuel from SRS to reactors					

3. Assuming up to 13 MT of Pu could be immobilized with any additional TRU waste that may be generated during these operations shipped to WIPP.

Shipment Route	Estimated Number of Shipments	Mode of Transportation (Commercial or SST/SGT)	Form of Material being Shipped	Estimated Isotopic Breakdown of Material in Shipment	Shipping Container to be used
TRU waste from SRS to WIPP from immobilization					

Radionuclide	Ci/g of WG Pu	Ci/g of KIS Pu
Pu-238	8.55E-03	6.84E-03
Pu-239	5.73E-02	5.45E-02
Pu-240	1.48E-02	2.62E-02
Pu-241	0.00E+00	3.81E-01
Pu-242	3.93E-06	1.02E-05
Am-241	3.44E-02	2.15E-01