



Westinghouse Electric Company LLC  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061-9121  
USA

Director, Office of Nuclear Material Safety and  
Safeguards  
U. S. Nuclear Regulatory Commission  
Document Control Desk  
11555 Rockville Pike  
Rockville, Maryland 20852-2738

Direct tel: 803-647-2046

e-mail: [malekem@westinghouse.com](mailto:malekem@westinghouse.com)

Your ref:

Our ref: LTR-RAC-21-50

July 12, 2021

**SUBJECT:** Correction to Enclosure 1 Regarding the Request for Exemption Associated with Disposal of Specified Columbia Fuel Fabrication Waste (Docket No. 70-1151) (EPID L-2021-LLA-0101)

**REFERENCE:** 1) Westinghouse letter to NRC, LTR-RAC-21-42, "Request for Exemptions Associated with Disposal and Transportation of Specified Columbia Fuel Fabrication Waste" (ML21153A001)

Westinghouse Electric Company, LLC (Westinghouse) requested NRC approval for alternate disposal of specified low-activity radioactive materials from the Columbia Fuel Fabrication Facility (CFFF), License No. SNM-1107, for certain waste containing byproduct material and special nuclear material (SNM) (Reference 1).

The NRC staff recognized a discrepancy in Table 7.1 of Enclosure 1 to Reference 1. After some investigation Westinghouse determined that the "Bulk/IMC Truck Surveyors (disposal site)" calculated dose was inadvertently divided between eight workers in lieu of four. As this discrepancy was non-conservative, Westinghouse has enclosed a revised Table 7.1 for review by the NRC staff.

In conclusion, the revised calculated dose for the Bulk/IMC Truck Surveyors at US Ecology Idaho, Inc. remains a small percentage of the limit specified in NUREG-1757 and does not impact the results of the radiological assessment as presented in section 7.0 of Enclosure 1 to Reference 1.

Please contact me at (803) 647-2046 should you have questions or need any additional information.

*Elise Malek*

Elise Malek (Jul 15, 2021 13:57 EDT)

Elise Malek  
Regulatory Affairs Manager  
Westinghouse Columbia Fuel Fabrication Facility  
Docket 70-1151 License SNM-1107

Enclosure 1: Revised Table 7.1

cc:

Mr. Thomas Vukovinsky

Mr. David Tiktinsky

Enclosure 1  
Revised Table 7.1

**Revised Table 7.1**  
**Results of SSDA Dose Evaluation for CFFF Waste Project**

Function	Minimum Number of Workers	Waste Contact Time (hr)	External Exposure Rate (mrem/hr)	Internal Dose Rate (mrem/hr)	Distance (m)	Total No. of Repetitions	Total External Dose per Worker (mrem)	Total Internal Dose per Worker (mrem)	Total Project Dose per Worker (mrem)	% of Max Annual MEI Dose
<b>Volumetric/Mixed Material</b>										
Front-End Dray Truck Drivers	4	0.09	4.06E-03	0.00E+00	0.6	604	5.58E-02	0.00E+00	5.58E-02	1.1%
Gondola Railcar Surveyors	4	0.33	2.81E-03	0.00E+00	1.0	121	2.80E-02	0.00E+00	2.80E-02	0.6%
Bulk/IMC Truck Surveyors (RTF)	4	0.08	3.18E-03	0.00E+00	1.0	356	2.27E-02	0.00E+00	2.27E-02	0.5%
RTF Excavator Operator	2	0.75	2.14E-03	1.08E-01	2.0	121	9.70E-02	4.88E+00	4.98E+00	99.6%
Gondola Railcar Cleanout	4	0.16	2.70E-03	1.08E-01	0.3	121	1.31E-02	5.21E-01	5.34E-01	10.7%
Back-End Dray Truck Drivers	8	0.75	4.06E-03	0.00E+00	0.6	356	1.36E-01	0.00E+00	1.36E-01	2.7%
Landfill Cell Operators	2	0.25	7.91E-04	1.08E-01	1.0	242	2.39E-02	3.25E+00	3.28E+00	65.6%
<b>Surface Contaminated Material</b>										
Long-Haul Direct Truck Drivers - Drive Time	5	45.45	3.46E-03	0.00E+00	0.6	158	4.98E+00	0.00E+00	4.98E+00	99.5%
Bulk/IMC Truck Surveyors (disposal site)	4	0.08	2.81E-03	0.00E+00	1.0	158	8.89E-03	0.00E+00	8.89E-03	0.2%
Landfill Cell Operators	2	0.25	7.94E-04	1.08E-01	1.0	38	3.77E-03	5.13E-01	5.16E-01	10.3%
<b>Project Dose-Totals</b>										
Long-Haul Direct Truck Drivers - Drive Time							4.98E+00	0.00E+00	4.98E+00	99.5%
Front-End Dray Truck Drivers							5.58E-02	0.00E+00	5.58E-02	1.1%
Gondola Railcar Surveyors							2.80E-02	0.00E+00	2.80E-02	0.6%
Bulk/IMC Truck Surveyors (RTF-highest dose reported)							3.16E-02	0.00+00	3.16E-02	0.7%
RTF Excavator Operator							9.70E-02	4.88E+00	4.98E+00	99.6%
Gondola Railcar Cleanout							1.31E-02	5.21E-01	5.34E-01	10.7%
Back-End Dray Truck Drivers							1.36E-01	0.00E+00	1.36E-01	2.7%
Landfill Cell Operators (summed)							2.78E-02	3.76E+00	3.79E+00	75.9%