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July 6, 1988

Dr. Ronald O. Hultgren, Director
Enriching Operations Division
Department of Energy, Oak Ridge Operations
Post Office Box 2001
Oak Ridge, Tennessee 37831

H15-1.4

Dear Dr. Hultgren:

Request for Information on Radioactive and Hazardous Waste Management to Respond to Congressional Inquiry

As requested in a memorandum (Kathleen I. Taimi, Director, Environmental Compliance Division; to H. Wayne Hibbitts, Director, Environmental Protection Division) dated June 9, 1988, enclosed is the information that addresses (item 1) the disposal of radioactive, hazardous, and mixed wastes released to or placed into the soil at the Oak Ridge Gaseous Diffusion Plant since operations began until the present. It is our understanding that we are to respond to item 1 of the request, and H. Wayne Hibbitts of your Environmental Protection Division will respond to items 2 and 3.

If you have questions or need additional information, please contact T. A. Bowers at extension 4-8224.

Sincerely,

for W. R. Golliher, Manager
Oak Ridge Gaseous Diffusion Plant

WRG:TABowers:shh

Enclosure

cc: T. P. A. Perry
H. D. Whitehead, Jr.
File - WRG

cc/enc: T. A. Bowers - RC
H. W. Hibbitts, DOE

#760

APPROVAL FOR RELEASE

Document: # Unnumbered ; Date 7/6/88 ;
Title/Subject Ltr., WR Golliher to RO Hultgren (DOE-ORO), "Request for Information on Radioactive and Hazardous Waste Management..." & enclosure

Approval for unrestricted release of this document is authorized by the Oak Ridge K-25 Site Classification and Information Control Office, Martin Marietta Energy Systems, Inc., PO Box 2003, Oak Ridge, TN 37831-7307.

K-25 Classification & Information Control Officer — Date 1/26/93

ENCLOSURE

RADIOACTIVE WASTE

	Low-Level Waste			High-Level Waste			Transuranic Waste		
	Curies (decayed)	Tons Solid	Gallons Liquid	Curies (decayed)	Tons Solid	Gallons Liquid	Curies (decayed)	Tons Solid	Gallons Liquid
pre-1985	14.2* (uranium)	300,000	21,640						
1985	2.0×10^{-2} (uranium)	946							
1986	7.0×10^{-5} (uranium)	497							
1987	5.5×10^{-5} (uranium)	2.5							
1988 to date**	2.7×10^{-5} (uranium)	1.0							
TOTAL (since operations began)	14.22	301,446.5	21,640						

Footnotes and/or Comments

*Primarily uranium contaminated waste.

**Estimated values based on 1987 data.

MIXED WASTE

	Low-Level Waste			High-Level Waste			Transuranic Waste		
	Curies (decayed	Tons Solid	Gallons Liquid	Curies (decayed)	Tons Solid	Gallons Liquid	Curies (decayed)	Tons Solid	Gallons Liquid
pre-1985	*		4,000,000						
1985	0.60 (uranium) 1.10 (technetium-99)		96,000						
1986	0.08 (uranium) 0.03 (technetium-99)		66,000						
1987	0.03 (uranium) 0.005 (technetium-99)		66,000						
1988 to date	0.015 (uranium) 0.0025 (technetium-99)		30,000						
TOTAL (since operations began)	**		4,258,000						

Footnotes and/or Comments

*Most of the radioactive constituents were placed in surface impoundments prior to 1985. The total curies per isotope are as follows, which were determined by sample results of the sludge.

Isotope	Curies (pre-1985)	**Total (since operations began)
Uranium	8.6	9.3
Technetium-99	45.0	46.1
Neptunium-237	2.0	2.0
Plutonium-239	0.3	0.3
Cesium-137	0.5	0.5

HAZARDOUS WASTE

	Tons Solid Waste	Gallons Liquid Waste
pre-1985	1.5	9,140
1985		
1986		
1987		
1988 to date		
TOTAL (since operations began)	1.5	9,140

Footnotes and/or Comments