



Putting Technology To Work

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January 13, 2003

Martin J. Virgilio, Director
Office of Nuclear Materials Safety and Safeguards
U.S. Nuclear Regulatory Commission
Two White Flint North
M/S 8 A23
11545 Rockville Pike
Rockville, Maryland 20852-2738

Reference: Supplemental Information to Battelle Letter dated November 6, 2002

Dear Mr. Virgilio:

This letter supplements Battelle's updated letter dated November 6, 2002, and telephone request from and additional discussions with Mr. Phil Brochman on January 7 through 9, 2003. In response to the request for information, Battelle confirmed that its research indicates that the mass of the $\text{UO}_2\text{-PuO}_2$ "meat" in the irradiated MOX experimental specimen is in excess of 100 grams. In subsequent research and discussions, specifically 10 CFR 73.37(a)(1), Battelle's remote measurement survey of the irradiated MOX experimental specimen in air within its High Energy Cell facility reveals that the specimen does not meet the definition of irradiated reactor fuel because, at a minimum, its unshielded dose rate from any surface is substantially less than 100 Rem per hour at a required distance of three (3) feet. This survey is attached for review. Therefore, the requirements of 10 CFR 73.37 should not apply.

If the NRC has questions, please do not hesitate to call me at (614) 424-5170.

Sincerely,

A handwritten signature in black ink that reads "Craig E. Jensen". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Craig E. Jensen, RSO
Battelle Columbus Laboratories
Decommissioning Project (BCLDP)

Attachment

cc: Glenn Tracy, Director, Division of Nuclear Security

NMS801



HPS #: J-23037

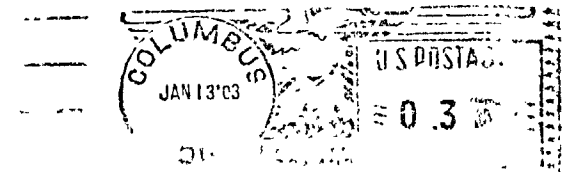
HEALTH PHYSICS SURVEY REPORT

DATE		INSTRUMENTATION USED		
TIME	7-12-02	MODEL	S/N	CAL. DATE DUE
SURVEYOR	L. Smith	RO-7	1245	10-5-02
LOCATION	JNL HEC	N		
REVIEWED BY	JUL 16 2002			A
Smear locations circled; Dose Rates = $\mu R/hr$		WI # 958	RWP # 02-JNO-021	
PURPOSE OF SURVEY: HEC Remote SURVEY		SMEAR RESULTS RESULTS = DPM/100CM ² UNLESS NOTED		
<p>FUEL PIN IN Stainless Steel TUBE</p> <p>50</p> <p>70</p> <p>600</p> <p>20</p> <p>70</p> <p>50</p>		<p>EXPOSED FUEL PIN</p> <p>80</p> <p>100</p> <p>770</p> <p>100</p> <p>80</p>		
<p>xx = 1-m READING</p> <p>for 30 1/1/03</p>		<p>N A</p> <p>NOTE: IF APPLICABLE <input type="checkbox"/> SEE ATTACHED DDD-100 FOR SMEAR RESULTS. <input type="checkbox"/> SEE ATTACHED DDD-100 FOR ADDITIONAL INFORMATION. <input type="checkbox"/> SEE ATTACHED DDD-057 FOR AFS RESULTS. NUMBER OF AFSH ATTACHED: _____ <input type="checkbox"/> ALL RESULTS ATTACHED </p> <p>Gross Masslinn RESULTS RESULTS = DPM/CM² UNLESS NOTED</p>		
<p>B - Dose Rates in mRad / Hr. <input type="checkbox"/> L3 / <input type="checkbox"/> DELTA 3 / <input type="checkbox"/> ELECTRA BKG: _____ CPM α: _____ GPM α EFF: _____ % α _____ % β _____</p>		<p>DATA Correction Factor: _____</p>		
DDO-138		5/93 (jw)		

C JENSEN



FCSS



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