

REGULATORY DOCKET FILE COPY



INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

November 29, 1978

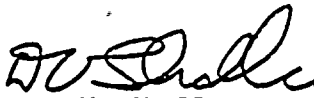
Ms. R. J. Greer
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Ms. Greer:

Attached please find the results of the split samples taken September 7, 1978 and October 19, 1978. The September 7, 1978 samples included a gaseous waste sample from #7 Gas Decay Tank; a liquid waste sample from the Clean Waste Holdup Tank and a HSL spiked liquid sample, HSL-6D. The October 19, 1978 samples included the plant vent stack particulate filter and charcoal cartridge; liquid waste from the Clean Waste Holdup Tank and a spiked particulate filter #43. Also included in this report are the strontium results for the March 28, 1978 split samples and the corrected results for Cs-134 on the March 28, 1978 liquid waste analysis. This correction had been previously submitted over the telephone.

Analytical results for the September 7, 1978 split samples are non-acidified. The split samples taken October 19, 1978 were acidified prior to analysis.

Should you have any questions, feel free to contact me.


D. V. Shaller
Plant Manager

DVS/law

cc: R. W. Jurgensen
R. F. Kroeger
J. E. Dolan
K. R. Baker
R. C. Callen
Office of Inspection & Enforcement
R. Walsh, Esq
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UNITED STATES DEPARTMENT OF ENERGY
IDAHO OPERATIONS OFFICE
ANALYTICAL CHEMISTRY BRANCH
SAMPLE RECORD SHEET

REFERENCE: HEALTH SERVICE
LABORATORY

Routine _____ URGENT Y

SERIAL NO. _____

SAMPLE FROM: B.C. Cook, Units 1 and 2

SAMPLES RECEIVED: _____

ANALYZED BY: _____

COLLECTED BY: IE III

ANALYSIS COMPLETED: _____

APPROVED BY: _____

SECTION CHIEF

DATE SUBMITTED: 11/18

NOTIFIED: _____

DATE: _____

SAMPLE			SAMPLE DESCRIPTION	ANAL. FOR	INST. USED	QUANT. USED	DATE CNTD.	COUNT TIME	GROSS COUNT	BKGD.	NET COUNT	RESULT ± 1 σ
DATE	TIME	LOCATION										
			Liquid Waste	Grav.	h-20				6.452×10^{-3}		$\mu\text{Ci/ml} \pm 4.839 \times 10^{-5}$	
			Location:	h-1					3.348×10^{-2}		$\mu\text{Ci/ml} \pm 2.009 \times 10^{-5}$	
			Liquid Waste Halted	Grav.								
			Sampled 9/1/78	Grav.			Co ⁵⁷		$5.890 \times 10^{-6} \pm$		2.80×10^{-6}	$\mu\text{Ci/cc}$
			Time: 10:40 EDT	Grav.	Scan		Cs ¹³⁴		$2.219 \times 10^{-3} \pm$		1.04×10^{-5}	"
							I ¹³¹		$2.604 \times 10^{-5} \pm$		8.82×10^{-6}	"
							Cs ¹³⁷		$2.866 \times 10^{-3} \pm$		1.46×10^{-5}	"
							Ag ^{108m}		$1.980 \times 10^{-4} \pm$		1.72 8.75×10^{-6}	"
							Zr ⁹⁷		$3.511 \times 10^{-4} \pm$		1.72×10^{-4}	"
							Nb ⁹⁵		$6.757 \times 10^{-5} \pm$		6.08×10^{-6}	"
							Co ⁵⁸		$2.90 \times 10^{-4} \pm$		3.0×10^{-5}	"
			Count data on:				Mn ⁵⁴		$1.288 \times 10^{-4} \pm$		5.42×10^{-6}	"
			10/2/78				Co ⁶⁰		$8.523 \times 10^{-4} \pm$		8.26×10^{-6}	$\mu\text{Ci/cc}$
			Decay correct shown									
			10/5 EDT 9/1/78									

* RANDOM UNCERTAINTIES REPORTED ARE 1 STANDARD DEVIATION, 1 σ SMALL NEGATIVE AND OTHER RESULTS ≤ 2 σ ARE INTERPRETED BY HSL AS INCLUDING "ZERO" OR AS NOT DETECTED. IF APPROPRIATE, ESTIMATES OF POSSIBLE SYSTEMATIC ERRORS ARE REPORTED IN PARENTHESES.

UNITED STATES DEPARTMENT OF ENERGY
IDAHO OPERATIONS OFFICE
ANALYTICAL CHEMISTRY BRANCH
SAMPLE RECORD SHEET

REFERENCE: HEALTH SERVICE
LABORATORY

Routine _____ URGENT _____

SERIAL NO. _____

SAMPLE FROM: P.C. Cook, Units 1 and 2

COLLECTED BY: S. R. R. III

DATE SUBMITTED: 11/78

SAMPLES RECEIVED: _____

ANALYSIS COMPLETED: _____

NOTIFIED: _____ DATE: _____

ANALYZED BY: _____

APPROVED BY: _____

SECTION CHIEF

SAMPLE			SAMPLE DESCRIPTION	ANAL. FOR	INST. USED	QUANT. USED	DATE CNTD.	COUNT TIME	GROSS COUNT	BKGD.	NET COUNT	RESULT $\pm 1 \sigma$
NO.	DATE	HOUR										
			Gas Sample	Gas	Sample							
			Location:									
			1 G.D.L.					Xe-133M	$1.684 \times 10^{-4} \pm$		6.113×10^{-5}	
			Sampled: 9/1/78					Xe-135	$9.268 \times 10^{-5} \pm$		3.573×10^{-5}	
			Time: 1115					Kr-85	$3.478 \times 10^{-4} \pm$		2.097×10^{-5}	
								Xe-133	$1.329 \times 10^{-2} \pm$		2.525×10^{-5}	
			HSL Spike 6D					Co ⁵⁷	$1.522 \times 10^{-4} \pm$		$8.219 \times 10^{-7} \mu\text{Ci/cc}$	
								Cs ¹³⁴	$3.363 \times 10^{-4} \pm$		$2.220 \times 10^{-6} \mu\text{Ci/cc}$	
			Decay correct to:					Co ⁶⁰	$3.568 \times 10^{-4} \pm$		$3.739 \times 10^{-6} \mu\text{Ci/cc}$	
			9/1/78 1115									
MARCH 28, 1978			Spl+ Sample					Sr ⁸⁹	2.0×10^{-8}		$\mu\text{Ci/cc}$	
								Sr ⁹⁰	$4.80 \times 10^{-7} \pm$		$5.0 \times 10^{-8} \mu\text{Ci/cc}$	
								Cs ¹³⁴	1.06×10^{-3}		instead of 17.06×10^{-3}	

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U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
IDAHO OPERATIONS OFFICE
ANALYTICAL CHEMISTRY BRANCH
SAMPLE RECORD SHEET

Routine _____ URGENT _____

SERIAL NO. _____

SPECIMEN FROM: <u> </u> COLLECTED BY: <u> </u> DATE SUBMITTED: <u> </u>	SAMPLES RECEIVED: <u> </u> ANALYSIS COMPLETED: <u> </u> NOTIFIED: <u> </u> DATE: <u> </u>	ANALYZED BY: <u> </u> APPROVED BY: <u> </u> SECTION CHIEF
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[illegible]

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U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
IDAHO OPERATIONS OFFICE
ANALYTICAL CHEMISTRY BRANCH
SAMPLE RECORD SHEET

Routine URGENT

SERIAL NO. _____

TITLE FROM: <u> </u> COLLECTED BY: <u> </u> DATE SUBMITTED: <u> </u>	SAMPLES RECEIVED: <u> </u> ANALYSIS COMPLETED: <u> </u> NOTIFIED: <u> </u> DATE: <u> </u>	ANALYZED BY: <u> </u> APPROVED BY: <u> </u> SECTION CHIEF
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