

From: "Parr, Nancy B." <parrnb@westinghouse.com>
To: 'Mary Adams' <MTA@nrc.gov>, "Couture, Gerard F." <CouturGF@westinghouse.com>, "Parr, Nancy B." <parrnb@westinghouse.com>
Date: Fri, Apr 6, 2007 8:58 PM
Subject: RE: Can you send public version of LTR-RAC-07-16?

Mary -

You can use white-out or we can resend the letter - whatever is the easiest.

Thanks!

Nancy

-----Original Message-----

From: Mary Adams [mailto:MTA@nrc.gov]
Sent: Friday, April 06, 2007 9:33 AM
To: couturgf@westinghouse.com; parrnb@westinghouse.com
Subject: Can you send public version of LTR-RAC-07-16?

Hi Nancy & Gerry,

The semi-annual effluent report dated Feb 26, 2007, says Westinghouse Proprietary Class 2 on it. Those reports don't meet the criteria for proprietary or sensitive information. Can you send me another letter with attachments that I can make public?

Or I can just white-out the "Westinghouse Proprietary Class 2" header and re-copy the letter and enclosure if that's OK with you.

Happy Easter,
Mary

Mary Thoma Adams, Senior Project Manager
301-415-7249
Fuel Manufacturing Branch
Division of Fuel Cycle Safety and Safeguards
Office of Nuclear Material Safety and Safeguards
Nuclear Regulatory Commission
Mail Stop T-8-F-42
Washington, DC 20555

CC: "Fischer, Roger E." <fischere@westinghouse.com>

Mail Envelope Properties (4616ECA6.D1D : 14 : 19741)

Subject: RE: Can you send public version of LTR-RAC-07-16?
Creation Date Fri, Apr 6, 2007 8:57 PM
From: "Parr, Nancy B." <parmb@westinghouse.com>

Created By: parmb@westinghouse.com

Recipients

nrc.gov

MTA (Mary Adams)

westinghouse.com

fischere CC (Roger E. Fischer)

CouturGF (Gerard F. Couture)

Post Office**Route**

nrc.gov

westinghouse.com

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MESSAGE	990	Friday, April 6, 2007 8:57 PM
Mime.822	2150	

Options

Expiration Date: None
Priority: Standard
ReplyRequested: No
Return Notification: None

Concealed Subject: No
Security: Standard

Junk Mail Handling Evaluation Results

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This message was not classified as Junk Mail

Junk Mail settings when this message was delivered

Junk Mail handling disabled by User
Junk Mail handling disabled by Administrator
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Block List is not enabled



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Nuclear Fuel
Columbia Fuel Site
P.O. Drawer R
Columbia, South Carolina 29250
USA

Director, Office of Nuclear Material
Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, DC 20555-001

Direct tel: 803-647-1000

Our ref: LTR-RAC-07-16

February 26, 2007

Dear Sir:

Subject: SNM-1107/70-1151

The following report fulfills regulatory requirements as listed in 10CFR 40.65 and 10CFR 70.59 "Effluent Monitoring Requirements." For the six-month period July 1, 2006 through December 31, 2006, the following quantities of radionuclides were released to the unrestricted area by the Westinghouse Electric Company's Columbia, South Carolina Nuclear Fuel Plant:

A. Gaseous	266.3 uCi Uranium (Analyzed as gross alpha)
B. Liquid Effluent	3487.2 uCi - U-234
	123.1 uCi - U-235
	492.3 uCi - U-238

Gaseous effluent results were obtained from point source gross alpha analysis of stack gas effluent, and the individual radionuclide activity composition (85.0% U-234, 3.0% U-235, and 12.0% U-238) is inferred from the calculated average enrichment. A detailed summary report by stack is provided as Attachment "A."

Liquid effluent values were obtained by analysis of composite proportional samples prior to discharge to the Congaree River and basing the activity on the calculated average enrichment. All liquid discharges are pumped through a single discharge line to Congaree River. A detailed summary liquid discharge report is provided as Attachment "B."

Sincerely,

WESTINGHOUSE ELECTRIC COMPANY

A handwritten signature in cursive script that reads 'Marc Rosser'.

Marc A. Rosser, Manager
Environment, Health and Safety

cc: U.S. NRC, (2)
ATTN: Regional Administrator, RII
Region II
61 Forsyth Street SW, Suite 23T85
Atlanta, Georgia 30303

ATTACHMENT "B"
LIQUID EFFLUENT DISCHARGES
SECOND HALF 2006

- A. Report Period: July 1, through December 31, 2006
- B. Sample Location: Composite Sampler at Waste Treatment, prior to discharge to Congaree River
- C. Total Liquid Flow: 7.779 E+07 liters
- D. Sample Collection: Effluent Composite Sampler

Radioisotope	Concentration		LLD, uCi/ml	Quantity Released, uCi
	uCi/ml	Error		
U-234	4.48 E-08	+/-0.28 E-08	6.00 E-10	3487.2
U-235	0.158 E-08	+/-0.08 E-08	6.00 E-10	123.1
U-238	6.33 E-09	+/-1.10 E-09	6.00E-10	492.3
Total				4102.6

Note:

1. Liquid effluent composites were analyzed by alpha spectroscopy, and significant quantities of U-236 were not detected using this method.

Attachment "A" GASEOUS EFFLUENT DISCHARGES - JULY 1 THROUGH DECEMBER 31, 2006

2006 SECOND HALF GASEOUS EFFLUENTS STACK IDENTIFICATION	QUANTITY RELEASED uCi URANIUM/ 6months	GROSS ALPHA (URANIUM)			LLD, uCi/ml	Flow Rate Meters/sec	Derived Isotopic Concentration uCi/ml			DERIVED ISOTOPIC DISCHARGE, uCi			
		Conc., uCi/ml	ERROR	+/-			U234	U235	U238	U234	U235	U238	
1 FURNACE EX LINE 1	5.01	1.01E-13	+/-	3.60E-14	8.00E-14	2.78	8.59E-14	3.03E-15	1.21E-14	4.26	0.15	0.60	
2 FURNACE EX LINE 2	5.63	9.96E-14	+/-	3.57E-14	8.00E-14	2.78	8.47E-14	2.99E-15	1.20E-14	4.79	0.17	0.68	
3 FURNACE EX LINE 3	5.59	1.03E-14	+/-	1.15E-14	8.00E-14	2.78	8.76E-15	3.09E-16	1.24E-15	4.75	0.17	0.67	
4 FURNACE EX LINE 4	5.28	8.84E-14	+/-	3.37E-14	8.00E-14	2.78	7.51E-14	2.65E-15	1.06E-14	4.49	0.16	0.63	
5 FURNACE EX LINE 5	6.16	1.42E-13	+/-	4.27E-14	8.00E-14	2.78	1.21E-13	4.26E-15	1.70E-14	5.24	0.18	0.74	
6 NEW DECON RM	3.62	1.24E-13	+/-	6.41E-14	8.00E-14	1.64	1.05E-13	3.72E-15	1.49E-14	3.08	0.11	0.43	
7 MET LAB EX	1.62	1.39E-13	+/-	6.78E-14	8.00E-14	0.56	1.18E-13	4.17E-15	1.67E-14	1.38	0.05	0.19	
8 INCINER EX	4.68	8.00E-14	+/-	5.15E-14	8.00E-14	1.89	6.80E-14	2.40E-15	9.60E-15	3.98	0.14	0.56	
9 SUPPL INC EX	5.77	8.00E-14	+/-	5.15E-14	8.00E-14	0.94	6.80E-14	2.40E-15	9.60E-15	4.90	0.17	0.69	
10 CONVERS 1-A EX	12.64	1.98E-13	+/-	5.04E-14	8.00E-14	4.17	1.68E-13	5.94E-15	2.38E-14	10.74	0.38	1.52	
11 CONVERSION 1-B	0.05	1.23E-13	+/-	3.97E-14	8.00E-14	4.17	1.05E-13	3.69E-15	1.48E-14	0.04	0.00	0.01	
12 S-1030-A	12.37	2.63E-13	+/-	5.80E-14	8.00E-14	7.50	2.24E-13	7.89E-15	3.16E-14	10.51	0.37	1.48	
13 S-1030-B	4.92	5.01E-13	+/-	8.01E-14	8.00E-14	7.50	4.26E-13	1.50E-14	6.01E-14	4.18	0.15	0.59	
14 MAINT ENCL 4B	0.00	7.64E-13	+/-	9.89E-14	8.00E-14	3.89	6.49E-13	2.29E-14	9.17E-14	0.00	0.00	0.00	
15 CONV ENCL EX 4C	10.76	1.38E-13	+/-	4.20E-14	8.00E-14	3.89	1.17E-13	4.14E-15	1.66E-14	9.15	0.32	1.29	
16 CONV ENCL EX 4D	0.00	2.77E-13	+/-	5.96E-14	8.00E-14	3.89	2.35E-13	8.31E-15	3.32E-14	0.00	0.00	0.00	
17 CONV EMERG EX 4E	1.79	4.14E-13	+/-	7.28E-14	8.00E-14	3.89	3.52E-13	1.24E-14	4.97E-14	1.52	0.05	0.21	
18 CHEM LAB FILTERED EX	10.59	1.01E-13	+/-	3.60E-14	8.00E-14	5.56	8.59E-14	3.03E-15	1.21E-14	9.00	0.32	1.27	
19 DECON ROOM EX	12.58	5.57E-13	+/-	8.45E-14	8.00E-14	1.42	4.73E-13	1.67E-14	6.68E-14	10.69	0.38	1.51	
20 CAL COMBGAS LN 1	1.56	5.48E-13	+/-	8.38E-14	8.00E-14	0.16	4.66E-13	1.64E-14	6.58E-14	1.33	0.05	0.19	
21 CAL COMBGAS LN 2	2.58	1.23E-12	+/-	8.45E-14	8.00E-14	0.16	1.05E-12	3.69E-14	1.48E-13	2.19	0.08	0.31	
22 CAL COMBGAS LN 3	0.75	2.91E-13	+/-	6.11E-14	8.00E-14	0.16	2.47E-13	8.73E-15	3.49E-14	0.64	0.02	0.09	
23 CAL COMBGAS LN 4	0.77	2.03E-13	+/-	5.10E-14	8.00E-14	0.16	1.73E-13	6.09E-15	2.44E-14	0.65	0.02	0.09	
24 CAL COMBGAS LN 5	2.50	8.47E-13	+/-	1.04E-13	8.00E-14	0.16	7.20E-13	2.54E-14	1.02E-13	2.13	0.08	0.30	
25 CHEM LAB #2	5.26	4.94E-13	+/-	7.96E-14	8.00E-14	0.16	4.20E-13	1.48E-14	5.93E-14	4.47	0.16	0.63	
26 CHEM LAB #3	0.67	9.99E-14	+/-	3.58E-14	8.00E-14	0.58	8.49E-14	3.00E-15	1.20E-14	0.57	0.02	0.08	
27 HP LAB EX	1.09	9.03E-14	+/-	3.40E-14	8.00E-14	0.64	7.68E-14	2.71E-15	1.08E-14	0.93	0.03	0.13	
28 DEV LAB 1 EX	2.35	1.78E-13	+/-	4.78E-14	8.00E-14	0.58	1.51E-13	5.34E-15	2.14E-14	2.00	0.07	0.28	
29 DEV LAB 2 EX	2.37	1.34E-13	+/-	4.14E-14	8.00E-14	0.94	1.14E-13	4.02E-15	1.61E-14	2.01	0.07	0.28	
30 PELLET COMBINED	24.98	8.90E-14	+/-	3.38E-14	8.00E-14	0.94	7.57E-14	2.67E-15	1.07E-14	21.23	0.75	3.00	
31 SOLV X N	4.95	1.01E-13	+/-	3.60E-14	8.00E-14	4.72	8.59E-14	3.03E-15	1.21E-14	4.21	0.15	0.59	
32 SOLV X S	4.16	3.39E-13	+/-	6.59E-14	8.00E-14	3.33	2.88E-13	1.02E-14	4.07E-14	3.54	0.12	0.50	
33 SCRAP REC DRY	6.53	5.83E-13	+/-	8.64E-14	8.00E-14	3.33	4.96E-13	1.75E-14	7.00E-14	5.55	0.20	0.78	
34 MAP COMBINED	0.00	3.35E-13	+/-	6.55E-14	8.00E-14	0.94	2.85E-13	1.01E-14	4.02E-14	0.00	0.00	0.00	
35 ABF HOOD TORIT EX	2.63	1.02E-13	+/-	3.61E-14	8.00E-14	1.42	8.67E-14	3.06E-15	1.22E-14	2.24	0.08	0.32	
36 IFBA EX	6.34	8.95E-14	+/-	3.39E-14	8.00E-14	4.72	7.61E-14	2.69E-15	1.07E-14	5.39	0.19	0.76	
37 MAINT WELD EX	4.56	3.26E-13	+/-	6.46E-14	8.00E-14	0.94	2.77E-13	9.78E-15	3.91E-14	3.88	0.14	0.55	
38 AC-3	6.33	8.80E-13	+/-	1.06E-13	8.00E-14	3.78	7.48E-13	2.64E-14	1.06E-13	5.38	0.19	0.76	
39 PELLET LINE 6	5.12	8.94E-13	+/-	1.07E-13	8.00E-14	2.78	7.60E-13	2.68E-14	1.07E-13	4.35	0.15	0.61	
40 AC-5	6.83	1.19E-13	+/-	3.90E-14	8.00E-14	3.78	1.01E-13	3.57E-15	1.43E-14	5.81	0.20	0.82	
41 AC-8	5.43	8.08E-14	+/-	3.22E-14	8.00E-14	3.78	6.87E-14	2.42E-15	9.70E-15	4.62	0.16	0.65	
42 AMMONIA FUME SC 1008-A	3.62	2.43E-13	+/-	5.58E-14	8.00E-14	1.89	2.07E-13	7.29E-15	2.92E-14	3.08	0.11	0.43	
43 AMMONIA FUME SC 1008-B	1.87	4.21E-13	+/-	7.34E-14	8.00E-14	1.89	3.58E-13	1.26E-14	5.05E-14	1.59	0.06	0.22	
44 AC-4	5.53	8.98E-14	+/-	3.39E-14	8.00E-14	3.89	7.63E-14	2.69E-15	1.08E-14	4.70	0.17	0.66	
45 HOT OIL RM EX	28.02	5.79E-13	+/-	8.61E-14	8.00E-14	3.89	4.92E-13	1.74E-14	6.95E-14	23.82	0.84	3.36	
46 ERBIA FURNACE EX	10.96	1.79E-13	+/-	4.79E-14	8.00E-14	8.17	1.52E-13	5.37E-15	2.15E-14	9.32	0.33	1.32	
47 ERBIA SCRUBBER EX	5.74	8.07E-14	+/-	3.22E-14	8.00E-14	4.33	6.86E-14	2.42E-15	9.68E-15	4.88	0.17	0.69	
48 ERBIA CHANGE ROOM	3.77	1.11E-13	+/-	3.77E-14	8.00E-14	1.90	9.44E-14	3.33E-15	1.33E-14	3.20	0.11	0.45	
Total uCi	266.3						TOTAL DERIVED ISOTOPIC			226.4	8.0	32.0	Total 266.3