UNITED STATES



NUCLEAR REGULATORY COMMISSION

REGION II SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW, SUITE 23T85 ATLANTA, GEORGIA 30303-8931

February 23, 2007

Mr. Cary Alstadt Manager, Columbia Plant Westinghouse Electric Company Commercial Nuclear Fuel Division Drawer R Columbia, SC 29250

SUBJECT: NRC INSPECTION REPORT NO. 70-1151/2007-001 AND NOTICE OF VIOLATION

Dear Mr. Alstadt:

This refers to the results of the above-referenced Nuclear Regulatory Commission (NRC) inspection conducted at your Columbia facility on February 5 through February 9, 2007.

As a result of the inspection, the enclosed NRC Forms 591FF, SAFETY INSPECTION REPORT, is being issued. The enclosed forms indicate that one violation was identified during the inspection of your licensed activities. The violation is cited in Part 2 of the 591FF, SAFETY INSPECTION REPORT. The violation was the result of your staff's failure to implement certificate of compliance requirements for NRC certified shipping packages. This violation was evaluated in accordance with the "NRC Enforcement Policy," which is included on the NRC's web site at http://www.nrc.gov./what-we-do/regulatory/enforcement.html. During the inspection, the inspector reviewed your corrective actions and no further response to the violation is needed. This matter is considered closed.

Since the NRC has already closed this matter, it is neither requested nor required that Part 1 of the enclosed NRC Form 591FF be signed by a Westinghouse Electric Company representative. Please retain this form in your files.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS), accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

C. Alstadt

Thank you for your cooperation. If you have any questions, please call me at (404) 562-4731.

Sincerely,

/RA/

Jay L. Henson, Chief Fuel Facility Inspection Branch 2 Division of Fuel Facility Inspection

Docket No. 70-1151 License No. SNM-1107

Enclosure: NRC Form 591FF Parts 1, 2, and 3

c w/encl: Marc Rosser, Manager Environment, Health and Safety Commercial Nuclear Fuel Division Westinghouse Electric Corporation Drawer R Columbia, SC 29250

Henry J. Porter, Assistant Director Division of Waste Management Bureau of Land and Waste Management Department of Health & Environmental Control 2600 Bull Street Columbia, SC 29201

Distribution w/encl:

M. Adams, NMSS B. Reilly, NMSS J. Henson, RII

R. Gibson, RII

X PUBLICLY AVAILABLE

□ NON-PUBLICLY AVAILABLE

SENSITIVE

X NON-SENSITIVE

ADAMS: X Yes ACCESSION NUMBER:

OFFICE	RII:DFFI						
SIGNATURE	RG 2/20/07						
NAME	R. Gibson						
DATE	02/ /2007	March 13, 2007					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: C:\FileNet\ML070540357.wpd

NRC FORM 591FF PART 1 U.S. NUCLEAR REGULATORY COMMIS			ORY COMMISSION		
10 CFR 2.201 SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION					
1. LICENSEE/LOCATION INSPECTED: Westinghouse Electric Company Commercial Nuclear Fuel Division Columbia, SC 29250			2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region II, Division of Fuel Facilities Inspection 61 Forsyth Street, Suite 23T85 Atlanta, GA 30303		
INSPECTION REPORT(S) :	70-1151/2007	7-001			
3. DOCKET NUMBER(S):	4	4. LICENSEE NUMBER	, ,	5. DATE(S) OF IN	
70-115	I	SIN	VI-1107	2/05-09	/2007
LICENSEE: The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows: Based on the inspection findings, no violations were identified. Previous violation(s) closed. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied. Mathematical Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s): X 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being					
(Violations and Corrective Actions) Licensee's Statement of Corrective Actions for Item 4, above. I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of					
corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested. Title Printed Name Signature Date					
LICENSEE'S REPRESENTATIVE					
NRC INSPECTOR	Richa	rd Gibson, Jr.	//	RA/	2/14/2007
NRC FORM 591FF PART 1 (11-2005) Enclosure					

NRC FORM 591FF PART 2		U.S. N	UCLEAR REGULATORY COMMISSION			
(11-2005)						
10 CFR 2.201						
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION						
1. LICENSEE		2. NRC/REGIONAL OFFICE				
Westinghouse Electric Company Commercial Nuclear Fuel Division Columbia, SC 29250		U.S. Nuclear Regulatory Commission Region II, Division of Fuel Facilities Inspection 61 Forsyth Street, Suite 23T85 Atlanta, GA 30303				
REPORT 70-1151/2007-001						
3. DOCKET NUMBER(S) 70-1151	4. LICENSE NUMBER(SNM-1107	S)	5. DATE(S) OF INSPECTION 02/05-09/2007			
(Continued) Section 3.4.1 of the License Application, "Procedures," requires, in part, that operations to assure safe, compliant activities involving nuclear material will be conducted in accordance with approved procedures. Procedure MOP-730713, "Loading Fuel Assemblies in MCC3 and MCC4 Shipping Packaging," Revision 92, Section 5.1, states, in part, make sure all restraining pressure clamps are aligned with						

Contrary to the above, on August 12, 2006, during a receipt inspection of two fresh fuel assemblies packaged and shipped by the licensee, a Part 50 licensee found that eight of the nine restraining pressure clamps were not aligned on the structural grids such that no grid springs showed on either side of the pads.

This is a Severity Level IV violation (Supplement V).

structural grids and no grid spring(s) shows at either side of the pad.

The NRC has concluded that information regarding the reason for the violation, the corrective actions taken and planned to correct the violation and prevent recurrence, and the date when full compliance was achieved is already adequately addressed in the written report that was submitted in accordance with 10 CFR 71.95, on October 9, 2006.

However, you are required to submit a written statement or explanation pursuant to 10 CFR 2.201 if the description therein does not accurately reflect your corrective actions or your position. In that case, or if you choose to respond, clearly mark your response as a "Reply to a Notice of Violation," and send it to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, D.C. 20555-0001, with a copy to the Regional Administrator, Region II within 30 days of the date of the letter transmitting this Notice.

NRC FORM 591FF PART 3			U.S. NUCLEAR REGULATORY COMMISSIO	
(11-2005)				
10 CFR 2.201		cket File Information	т	
		PLIANCE INSPECTION		
1. LICENSEE Westinghouse Electric Company Commercial Nuclear Fuel Division Columbia, SC 29250		2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region II, Division of Fuel Facilities Inspection 61 Forsyth Street, Suite 23T85		
REPORT 70-1151/	2007-001	Atlanta, GA	4 30303	
3. DOCKET NUMBER(S) 70-1151	4. LICENSE NU SNM-1107	()	5. DATE(S) OF INSPECTION 02/05-09/2007	
6. INSPECTION PROCEDURES US	ED 88030		I	
	SUPPLEMENTAL	L INSPECTION INFORM	ATION	
		OGRAM SCOPE		
pressurized and boiling w unusual operational occu This routine, announced program. The inspection	ater reactors. During rrences. nspection included ob involved observations ith plant personnel. T	the inspection peri servations and eva of work activities,	to fuel assemblies for use in both iod, there were no plant upsets or aluation of the radiation protection reviews of selected procedures and tified the following aspects of the	
Radiation Protection (IF	<u>88030)</u>			
license commitme		s by the licensee a	in accordance with regulations and and implementation of the ALARA (as	
properly maintain survey instrument	The observed equipment used for detecting the presence of radiation and contamination was properly maintained, and performed the intended safety function in a reliable manner. The survey instruments were calibrated by an approved outside vendor in accordance with the licensee's procedures.			
	The external exposure monitoring program was implemented in a manner to maintain doses ALARA. The exposures were less than the occupational limits in 10 CFR Part 20.1201.			
Internal exposure:	Internal exposures were significantly less than the limits of 10 CER Part 20.1201. However, a			

• Internal exposures were significantly less than the limits of 10 CFR Part 20.1201. However, a weakness was identified in the implementation of the licensee's in-vitro bioassay program. From the review of urinalysis records of employees dismissed between the period January 2004 to February 2007, the inspector identified that three employees signed separation papers indicating that they had submitted a urine sample upon separation from employment; however, no record(s) regarding the results of the urinalysis could be found. The inspector reviewed the records of the individuals' monthly and annual urine results for that period and determined that there was no significant uptake by the dismissed employees. The licensee intended to implement more rigorous program to ensure that bioassay samples from departing employees are analyzed.

591FF Part 3 continued

- Respiratory protection equipment issuance and training assured that equipment was obtained by certified users only. The licensee maintained adequate records to demonstrate adequate implementation of the respiratory protection program.
- Radiological safety postings and radiation chemical work permits (RCWP) were properly used to communicate potential hazards and protective equipment requirements to workers.
- The radiation and contamination survey programs were appropriately implemented to protect workers, and to identify potential work areas posing an internal or external radiation hazard to workers. A review of the licensee's corrective action programs (CAPs) indicated that radiation and contamination problems and events were entered into the tracking system plant wide and were appropriately resolved.
- The licensee's ALARA program was properly implemented.

Violation

 (VIO) 70-1151/2007-01-01 - "Transportation," - A violation was identified for the licensee failure to align pressure pads with grids such that grid springs are not visible along either long side of the pressure pad of fresh fuel assemblies prior to shipment.

Corrective actions taken by the licensee: <u>Remedial Actions</u>: (1) A meeting was held with all packing personnel to review the event in detail and solicit feedback on what could be done to prevent recurrence of the event, (2) a team leader from the first shift was temporarily moved to the second shift for oversight until a realignment of operator experience balance was implemented to ensure that experienced personnel are on both shifts, and (3) packing operators and QC verifiers opened all containers on site and verified all steps as well as having QC conduct an independent verification of steps ensuring assemblies were packed correctly.

<u>Interim Actions:</u> The packing operators were provided a listing of appropriate contract/container configuration for MCC packages to be used for configuration verification, and initiated an independent verification of all steps required by the packing area inspection checklist.

<u>Actions to Prevent Recurrence:</u> (1) disciplinary actions were taken against the operators that failed to perform their assigned task, as required by procedure, (2) improved current systems (including procedures, tooling, and information systems) used to validate and verify container configurations against the contract and fuel assemblies being packed into specific containers, (3) implement QC oversight to provide independent verification of container acceptance prior to release for shipping, and (4) perform an effectiveness review to assess the container control systems ability to accurately validate, verify, and track container configurations through all phases of container movement including container refurbishment and turnaround.

Follow-up Items:

• (URI) 70-1151/2006-01-01 - This item involved the evaluation of the extremity monitoring program in the pelleting area due to changes in personnel and operations, including the review of current monitoring procedures and training in this area. The inspector determined that the licensee conducted an extremity evaluation (ring study) in the pelleting area and concluded that there was no significant difference between the two hands compared to normal random variation. The licensee decided that based on the study, a ring badge would be worn on the dominant hand in the pelleting areas. This URI is considered closed.

• (IFI) 70-1151/2005-08-02 - This item involved the inability to clearly hear the voice communication system (VCS) in the conversion area during normal operations. The licensee stated that funds had been approved to implement the plan to upgrade the VCSs throughout the plant, and that work is scheduled for the end of February 2007. This IFI will remain open.

List of Items Opened, Closed

Item Number	<u>Status</u>	<u>Type</u>	Description
70-1151/2006-01-01	Closed	URI	Re-evaluate the extremity monitoring program in the pelleting area due to changes in personnel and operations
70-1151/2005-08-02	Open	IFI	Inability to Clearly Hear the VCS in the Conversion Area During Normal Operation
70-1151/2007-01-01	Open/Closed	VIO	Failure to align pressure pads with grids such that grid springs are not visible along either long side of the pressure pad of fresh fuel assemblies prior to shipment.