



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

July 3, 2007

Mr. Charles Perkins  
Site Manager  
AREVA NP, Inc.  
2101 Horn Rapids Road  
Richland, WA 99352-0130

SUBJECT: NRC INSPECTION REPORT NO. 70-1257/2007-005

Dear Mr. Perkins:

This refers to the results of the above-referenced Nuclear Regulatory Commission (NRC) inspection conducted at your Horn Rapids Road, facility on June 11 - 14, 2007.

As a result of the inspection, the enclosed NRC Form 591FF, SAFETY INSPECTION REPORT, is being issued. The enclosed form indicates that no violations were identified during the inspection of your licensed activities. Please retain the original Form 591FF Parts 1 and 3 for 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>.

Should you have any questions concerning this letter, please contact us.

Sincerely,

**/RA/**

David A. Ayres, Chief  
Fuel Facility Inspection Branch 1  
Division of Fuel Facility Inspection

Docket No. 70-1257  
License No. SNM-1227

Enclosure: NRC Form 591FF Parts 1 and 3

cc w/encl: (See page 2)

C. Perkins

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cc w/encl:

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Distribution w/encl: (See page 3)

C. Perkins

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☐ PUBLICLY AVAILABLE      ☐ NON-PUBLICLY AVAILABLE      ☐ SENSITIVE      ☐ NON-SENSITIVE

ADAMS: ☐ Yes      ACCESSION NUMBER: \_\_\_\_\_

OFFICE	RII:DFFI	RII:DFFI	RII:DFFI				
SIGNATURE	/RA/	/RA/	/RA/				
NAME	OLopez	JJimenez	AGooden				
DATE	06/27/2007	06/26/2007	06/26/2007	07/03/2007	07/03/2007	07/03/2007	07/03/2007
E-MAIL COPY?	YES	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: G:\REPORTS\Final Reports\Areva - Richland\2007\FS 2007-005.wpd

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: AREVA NP, Inc. 2101 Horn Rapids Road Richland, WA 99352-0130		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 2007-005			
3. DOCKET NUMBER(S) : 70-1257		4. LICENSEE NUMBER(S): SNM-1227	
		5. DATE(S) OF INSPECTION: June 11-14, 2007	
<b>LICENSEE:</b> 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: <input checked="" type="checkbox"/> 1. Based on the inspection findings, no violations were identified. <input type="checkbox"/> 2. Previous violation(s) closed. <input type="checkbox"/> 3. 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. _____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective  <input type="checkbox"/> 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  (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	O. Lopez/J. Jimenez		

## Docket File Information

SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION

1. LICENSEE <b>Areva NP, Inc.</b> <b>2110 Horns Rapid Rd.</b> <b>Richland, WA 99352-0130</b> REPORT 2007-005		2. NRC/REGIONAL OFFICE <b>U.S. Nuclear Regulatory Commission</b> <b>Region II, Division of Fuel Facilities Inspection</b> <b>61 Forsyth Street, Suite 23T85</b> <b>Atlanta, GA 30303</b>
3. DOCKET NUMBER(S) 70-1257	4. LICENSE NUMBER(S) SNM-1227	5. DATE(S) OF INSPECTION June 11-14, 2007

## 6. INSPECTION PROCEDURES USED

IP: 88055, 88020, 88035

## SUPPLEMENTAL INSPECTION INFORMATION

## PROGRAM SCOPE

AREVA NP Richland facility fabricates low-enriched uranium fuel and blended low-enriched uranium fuel (BLEU) for use in commercial reactors. During the period of the inspection, all operations were normal.

This routine, announced inspection included observations and evaluation of the facility operations, radioactive waste management, and fire protection programs. The inspection involved observations of work activities, reviews of selected procedures and records, and interviews with plant personnel. The inspection identified the following aspects of the programs as outlined below:

Fire Protection

- Based on plant tours and interviews with operators, the inspectors determined that the licensee controlled combustible materials and ignition sources in accordance with procedures and fire safety requirements.
- The inspectors confirmed that the licensee performed internal audits and inspections in accordance with license requirements and maintained the pre-fire plan up to date.
- The inspectors reviewed maintenance records and walked down selected components of the fire detection system and noted that they were implemented and properly maintained. The reviewed components included fire alarm central station, smoke, heat, and hydrogen detectors.
- The inspectors reviewed maintenance records and walked down sections of the sprinkler systems. The inspectors confirmed that the sprinklers were not obstructed, that the water supply to the system was readily available with correct valve positioning, and that there was no visual confirmation of physical degradation of the system.
- Fire extinguishers were readily available, unobstructed, and rated for the correct fire scenario for the area.
- Passive fire protection systems were in good condition without cracks or gouges, and penetrations were properly sealed.

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## PROGRAM SCOPE

Operational Safety

- Operators were knowledgeable of plant procedures and the safety significant aspects of the licensee's process operations. Based on observations of plant operations and discussions with production operators, the licensee was adequately maintaining compliance with nuclear criticality safety (NCS) controls and nuclear material storage requirements.
- The inspectors review of operating procedures determined that the process layout and steps described in the procedures were in agreement. The procedures provided operators with information regarding safety components and guidelines to follow, and IROFS were adequately identified in the procedures as a reminder to the operators.
- Process walk-down and review of documentation confirmed that the licensee maintained adequate configuration control of plant modifications.
- The licensee's performance of surveillance testing on safety-related equipment was satisfactory and met the established acceptance criteria.
- The licensee's NCS training and examination material for plant operators was adequate to ensure proper indoctrination of personnel on the principles of NCS and their responsibility regarding compliance with NCS controls.
- Audits of the plant operations and radioactive waste management program were adequate in their focus and assessment of various work activities and process operations. Audit findings and recommendations were communicated to licensee management.
- The inspectors reviewed and discussed the process safety information, and hazard identification and assessment information utilized by the licensee. The inspectors found the information for chemical safety system reviews to be adequate.

(11-2005)

10 CFR 2.201

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## PROGRAM SCOPE

Radioactive Waste Management

- The liquid and airborne effluent program effectively maintained effluent concentrations and offsite doses below the limits specified in 10 CFR Part 20.
- The collection and disposal of solid waste and liquid waste were in accordance with license requirements.
- No significant problems were identified with the effluent monitoring equipment, and no deviations from the procedures were observed.
- The licensee finished the remediation work on the lagoon areas.
- The licensee's program for the storage, labeling, shipping, and tracking of low level radioactive waste (LLRW) was adequate.
- The licensee's program for the management and shipment of LLRW for disposal met the requirements of the regulations.
- The inspectors conducted a walk-down of the waste incinerator process area and no issues were identified with observed operations.

Items Opened, Closed, And Discussed

Item Number	Status	Type	Description
EN 43234	CLOSED	LER	Unanalyzed condition-propane fire associated with propane powered forklifts in SNM storage areas. As a corrective action the licensee established IROFS to ensure that propane powered vehicles do not remain unattended in special nuclear material storage area.

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## SUPPLEMENTAL INSPECTION INFORMATION

## PROGRAM SCOPE

70-1257/2006-05-01	CLOSED	VIO	Failure to properly implement software modifications that impact functionality of fire alarm. As part of the corrective actions, the licensee reviewed the configuration management program procedure to include detail requirements to test equipment that is impacted by hardware and software changes. The licensee also developed a procedure that describes methods or sequences required to verify and validate software configuration.
70-1257/2006-05-02	CLOSED	VIO	Failure to follow fire safety related procedures. As part of the corrective actions, the licensee reviewed the fire hazards analyses that were overdue. The licensee also reviewed the hot work procedure to include requirements to verify adjacent areas are free of combustible materials.
EN 43397	DISCUSSED	LER	Failure of IROFS that restricts the amount of combustible material in Warehouse 6. As an immediate corrective action the licensee removed the material from the warehouse and performed an extent of condition for site-wide implications.