

ENCLOSURE 1
NOTICE OF VIOLATION

B&W Fuel Company
Commercial Nuclear Fuel Plant

Docket No. 70-1201
License No. SNM-1168

During an NRC inspection conducted on January 7-11, 1991, violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," 10 CFR Part 2, Appendix C (1990), the violations are listed below:

- A. License Condition No. 9 of Special Nuclear Materials License No. 1168 (SNM-1168) requires the licensee to use licensed material in accordance with the statements, representations, and conditions of Part I of the licensee's application dated June 22, 1990.

Part I, Chapter 3, Section 3.1.4 of the License Application dated June 22, 1990 requires the licensee to conduct all license activities related to radiation protection in accordance with approved written procedures.

Procedure AS-1101 "Employee Safety Training," Rev. 13, dated April 2, 1990, requires the licensee to provide "Plant Safety Indoctrination" training to all new employees and document the training on the "Computer Training File;" and requires the licensee to provide retraining to all radiation workers on an annual basis.

Procedure AS-1132, "Service Equipment Refurbishment Facilities (SERF) Radiological Control," Rev. 5, dated January 5, 1990, requires the licensee to provide SERF access training to radiation workers prior to adding the workers name to the SERF access list and granting unescorted access to the SERF.

Contrary to the above, the licensee failed to follow procedures pertaining to employee training in the following examples:

1. From December 1989 to December 1990, the licensee failed to provide SERF access training to 6 of 20 workers reviewed prior to adding the worker's name to the SERF access list and granting them unescorted access to the SERF.
2. From January 1990 to December 1990, the licensee failed to document 12 of 14 new employee's training on the "Computer Training File."

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3. From January 1988 to December 1990, the licensee failed to provide one of six radiation workers reviewed retraining during 1988.

- B. License Condition No. 9 of SNM-1168 requires the licensee to use licensed material in accordance with the statements, representations, and conditions of Part I of the licensee's application dated June 22, 1990.

Part I, Chapter 3, Section 3.1.4 of the License Application dated June 22, 1990 requires the licensee to conduct all license activities related to radiation protection in accordance with approved written procedures.

Procedure AS-1129 "Calibration and Maintenance of Radiation Survey Instruments," Rev. 4, dated September 13, 1989, requires counter efficiency to be determined by dividing the average counts per minute of twenty three-minute counts by the 4 Pi value stated on the calibration standard certificate; and requires instrument readings to be within ten percent of known calibration source values for the instrument to be considered properly calibrated.

Contrary to the above, the licensee failed to follow procedures pertaining to instrument calibration in the following examples:

1. On November 12, 1990, the licensee failed to properly determine counter efficiency for the Tennelec LB-5100 gas proportional counter in that mathematical calculations were erroneous.
2. On June 30, 1990, the licensee failed to calibrate the 500-5000 scale on a PAC 4G S/N 4274 to within ten percent of known values, but nevertheless determined the instrument to be properly calibrated.

This is a Severity Level IV Violation (Supplement VI).

- C. License Condition No. 9 of SNM-1168 requires the licensee to use licensed material in accordance with the statements, representations, and conditions of Part I of the licensee's application dated June 22, 1990.

Part I, Chapter 3, Section 3.1.4 of the License Application dated June 22, 1990 requires the licensee to conduct all license activities related to radiation protection in accordance with approved written procedures.

Procedure AS-11C8, "Personnel Monitoring," Rev. 12, dated September 13, 1989, requires personnel to be instructed to wear dosimetry between the neck and belt line on the front of the body.

Procedure AS-1121, "Bioassay Program," Rev. 9, dated June 14, 1990, requires annual in vivo analysis to be performed for personnel working in the SERF area.

Contrary to the above, the licensee failed to have or to follow approved procedures pertaining to personnel radiation protection in the following examples:

1. No written procedures were available for licensee evaluations of extremity monitoring requirements conducted from September 1 through December 1990.
2. On January 7, 1991, six of thirteen individuals in the pellet loading and rod welding areas were observed wearing whole body personnel dosimetry below the waist or on lateral or dorsal torso areas.
3. The licensee failed to perform the 1990 annual in vivo analysis for a maintenance worker who had worked in the SERF area.

This is a Severity Level IV Violation (Supplement VI).

- D. 10 CFR 20.401(a) requires that each licensee maintain records showing radiation exposures of all individuals for whom personnel monitoring is required under §20.202 on clear and legible records containing all the information required by Form NRC-5.

Contrary to the above, as of January 11, 1991, the licensee failed to maintain adequate, current exposure records for three of eight individuals reviewed, in that, periods of exposure and associated doses were not included in the current occupational external radiation exposure official records.

This is a Severity Level IV Violation (Supplement IV).

Pursuant to the provisions of 10 CFR 2.201, B&W Fuel Company is hereby required to submit a written statement or explanation to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, D.C. 20555 with a copy to the Regional Administrator, Region II, and if applicable, a copy to the NRC Resident Inspector, within 30 days of the date of the letter transmitting this Notice of Violation (Notice). This reply should be clearly marked as a "Reply to a Notice of Violation" and should include [for each violation]: (1) the reason for the violation, or, if contested, the basis for disputing the violation, (2) the corrective steps that have been taken and the results achieved, (3) the corrective steps that will be taken to avoid further violations, and (4) the date when full compliance will be achieved. If an adequate reply is not received within the time specified in this Notice, an order may be issued to show cause why the license should not be modified,

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suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time.

FOR THE NUCLEAR REGULATORY COMMISSION

Douglas M. Collins

Douglas M. Collins, Chief
Radiological Protection and
Emergency Preparedness Branch
Division of Radiation Safety
and Safeguards

Dated at Atlanta, Georgia
this *6th* day of *February* 1991