

Babcock and Wilcox Company

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APR 28 1982

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 2100
ATLANTA, GEORGIA 30303

APR 28 1982

Report No. 50-99/82-02

Licensee: Babcock and Wilcox Company
Lynchburg Research Center
Lynchburg, VA 24505

Facility Name: Lynchburg Research Center

Docket No. 50-99

License No. R-47

Inspection at Lynchburg site near Lynchburg, VA

Inspector: W. W. Peery

4/19/82
Date Signed

Approved by: K. P. Barr

K. P. Barr, Section Chief
Technical Inspection Branch
Division of Engineering and Technical Programs

4/26/82
Date Signed

SUMMARY

Inspection on March 16-18, 1982

Areas Inspected

This special, announced inspection involved 16 inspector-hours on site in the area of radiation protection associated with the dismantling of the LPR facility.

Results

Of the area inspected, no violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *T. Engelder, Laboratory Director
- *A. Olsen, License Administrator
- M. Baldwin, Supervisor Reactor Operations
- *J. Cure, III, Health and Safety Supervisor
- C. Burnham, Senior Operator
- D. Harris, Senior Health Physics Engineer
- K. Long, Accountability Specialist

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on March 18, 1982, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Disposition of Materials

- a. This preliminary inspection revealed that all LPR fuel has been shipped to SR00. Three shipments were made in November 1981 for a total of 25 fuel elements, utilizing a Battelle Columbus Laboratories cask, USA/5957 B()F, under Certificate of Compliance Number 5957. DOE/NRC Forms 741, Nuclear Materials Transaction Reports were prepared by the licensee and these were reviewed to verify disposal of all LPR fuels. Form 741s, Nuclear Material Transaction Reports and licensee internal records were reviewed to determine that all neutron sources possessed under the LPR license number R-47 had been transferred to authorized recipients off-site or to the B&W License No. SNM-778. All sources had been transferred.
- b. All major activated components have been removed from the LPR and are being held in secured storage pending shipment to an authorized waste disposal site. The remaining radioactivity in the LPR consists of activation products (Eu-152) in the concrete pool walls, metal activation products (primarily Co-60) the majority of which is located in the 8 inch beam port on the interior end of the ports and contaminated

resins in the LPR water clean-up system. Removal of activation products is continuing and final verification of the absence of licenseable material could not be completed at the time of this inspection.

6. Confirmatory Survey

- a. Inspection of licensee records of surveys and decontamination efforts revealed that conscientious efforts have been made, and are continuing, to eliminate residual radioactivity. Upon completion by the licensee of dismantling, decontamination and final survey of the LPR, a verification survey will be performed.
- b. At the time of this inspection samples were obtained of a core drilling from the interior of the LPR pool wall, dust samples from the floor of the pool, smears adjacent to the pool, breathing zone air sample and a liquid waste hold up tank sample for analysis in Region II and comparison with licensee analysis results. The results will be included with all other data in the final close-out inspection report.