

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION I

IE Inspection Report No: 50-29/76-10 Docket No: 50-29

Licensee: Yankee Atomic Electric Company License No: DPR-3
20 Turnpike Road Priority: _____
Westborough, Massachusetts 01581 Category: C

Location: Rowe, Massachusetts Safeguards Group: _____

Type of Licensee: PWR, 500 MWt (W)

Type of Inspection: Routine, Unannounced

Dates of Inspection: March 30-31, 1976

Dates of Previous Inspection: February 25-27, 1976

Reporting Inspector: D. R. Neely 5/18/76
D. R. Neely, Radiation Specialist DATE

Accompanying Inspectors: J. R. White 5/18/76
J. R. White, Radiation Specialist DATE

_____ DATE

Other Accompanying Personnel: P. J. Knapp 5/18/76
P. J. Knapp, Chief, Radiation Support Section DATE

Reviewed By: P. J. Knapp 5/18/76
P. J. Knapp, Chief, Radiation Support Section DATE
FF&MS Branch

8011060 849

POOR ORIGINAL

SUMMARY OF FINDINGS

Enforcement Action

A. Items of Noncompliance

1. Violations

None

2. Infractions

None

3. Deficiencies

License Condition 15A of Byproduct Material License 20-06216-01 requires that each sealed source containing byproduct material, other than Hydrogen-3, with a half life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months.

Contrary to this requirement, four Co-60 sources of 1 millicurie, 1.71 millicuries, 35.19 millicuries and 115.9 millicuries; and one Cs-137 source of 50 curies were not tested between June 4, 1975 and February 1, 1976, an interval of eight months. (Details, 5)

Licensee Action on Previously Identified Enforcement Action

Not inspected.

Design Changes

None

Licensee Events

None

Other Significant Findings

A. Current Findings

1. Acceptable Areas

No inadequacies were identified during inspection of the following areas:

- a. Respiratory Protection
- b. Materials Inventory
- c. Receipt and Transfer
- d. Shipping Accidents
- e. Notifications and Reports

2. Unresolved Items

None

3. Infractions and Deficiencies Identified by the Licensee

None

4. Deviations

None

B. Status of Previously Identified Unresolved Items

Procedure approval for sampling containment air prior to vapor containment entry. Inspection Report 50-29/75-09, Detail 5.c. This item is resolved. (Details, 4)

Management Interview

A management interview was conducted at the site on March 31, 1976.

Persons Present

H. A. Autio, Plant Superintendent
I. R. Seybold, Plant Health Physicist
N. M. Panzarino, Engineer, YNSD
J. L. Staub, Technical Assistant to Plant Superintendent
N. N. St. Laurent, Assistant Plant Superintendent
L. Bozek, Quality Control and Audit Engineer
W. D. Billings, Supervisor, Plant Chemistry and Health Physics

Items Discussed

A. Purpose of the Inspection

The inspector stated that the purpose of this inspection was to review the licensee's radiation protection program in the areas of:

1. Records pertaining to Radiation Safety
2. Respiratory Protection
3. Materials Inventory
4. Receipt and Transfer of Radioactive Material
5. Notifications and Reports

B. Acceptable Areas

The items discussed are as identified under the "Other Significant Findings" section of this report.

C. Items of Noncompliance

The items discussed are as identified under the "Enforcement Action" section of this report.

DETAILS

1. Persons Contacted

I. R. Seybold, Plant Health Physicist
W. E. Billings, Supervisor, Chemistry and Health Physics
J. Trejo, Engineering Assistant
L. Bozek, Quality Control and Audit Engineer

2. Scope of the Inspection

The inspection consisted of a review of selected records, procedures and programs administered by the licensee. In the course of the inspection, the inspector conducted a review of the facility accompanied by a Health Physics Technical Assistant and an employee representative.

3. Plant Records

The inspector reviewed the following records for the periods indicated and found that they appeared to be acceptable.

a. Exposure Control Records

- (1) NRC - Form 4 - 1975 to 1976
- (2) NRC - Form 5 - 1975 to 1976 (inclusive of February 28, 1976)

b. Respiratory Protection Records

- (1) Whole Body Counting - 1975 to 1976
- (2) Respiratory Training - 1975 to 1976
- (3) Respiratory Fitting - 1975 to 1976
- (4) Respiratory Use - 1975 to 1976

c. Radioactive Material Receipt and Shipments

- (1) Laundry and Waste Shipments - January 3, 1975 to March 22, 1976
- (2) New Fuel Receipt - July 15, 1975

d. Notification and Reports - 1975 to 1976

e. Radioactive Materials Inventory - 1975 to 1976

f. Dosimeter Records - January and February 1976

g. Shipping Accident Reports - 1975 to 1976

4. Status of Previously Identified Unresolved Items

Inspection Report 75-09, Detail 5.e. reported that the licensee had adopted and utilized a procedure for sampling prior to vapor containment entry, before the procedure had been formally reviewed and accepted. In the course of this inspection, the inspector noted that the procedure has been formally approved by the Plant Offsite Review Committee (PORC). The inspector had no further questions on this matter.

5. Enforcement Action

a. Sealed Source Leak Test

In reviewing the licensee's record of sealed source leak testing, the inspector noted one case of an eight month period between leak test intervals, i.e. June 4, 1975 to February 2, 1976. This interval is contrary to the License Condition 15.A of License 20-06216-01, which specifies that the interval between leak testing shall not exceed six months.

Sealed Sources Which Were Not Leak-Tested During the Period
6/4/75 - 2/2/76

<u>Source Number</u>	<u>Isotope</u>	<u>Corrected Activity</u>
6	Co ⁶⁰	1 millicurie
7	Co ⁶⁰	1.71 millicurie
8	Co ⁶⁰	35.19 millicurie
26	Co ⁶⁰	115.9 millicurie
88	Cs ¹³⁷	50 Curies

The interval specified by the Byproduct Material License (six months) for leak testing the sources listed above was exceeded in that the sources were not tested, as required, during the period June 4, 1975 to February 2, 1976. The inspector noted that this failure to leak test in the specified period was a deficiency.

YANKEE ATOMIC ELECTRIC COMPANY

DATE OF DOCUMENT

6/7/76

DATE RECEIVED

6/28/76

NO

60728

LTR

MEMO

PORT

OTHER

X

TO:

ORIG

CC

OTHER

IE (VOLGENAU)

X

ACTION NECESSARY

CONCURRENCE

DATE ANSWERED

NO ACTION NECESSARY

COMMENT

BY

CLASSIF

U

POST OFFICE

REG NO

FILE CODE

DESCRIPTION (May be unclassified)

50-29/76-10

LETTER IN RESPONSE TO YOUR REPORT CONCERNING A DEFICIENCY REPORTED BY YOUR INSPECTOR.

REFERRED TO

DATE

RECEIVED BY

DATE

DREHER

R.A. HARTFIELD

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U. S. NUCLEAR REGULATORY COMMISSION

MAIL CONTROL FORM

FORM NRC 3265 (1-75)

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