

December 29, 1981

Docket No. 50-029  
LS05-81- 12-098



Mr. James A. Kay  
Senior Engineer - Licensing  
Yankee Atomic Electric Company  
1671 Worcester Road  
Framingham, Massachusetts 01701

Dear Mr. Kay:

SUBJECT: SYSTEMATIC EVALUATION PROGRAM TOPIC III-8.A, LOOSE PARTS  
MONITORING AND CORE BARREL VIBRATION PROGRAM - YANKEE ROWE

Enclosed is a copy of our evaluation of Systematic Evaluation Program  
Topic III-8.A.

You are requested to examine the facts upon which the staff has based  
its evaluation and respond either by confirming that the facts are  
correct, or by identifying errors and supplying the corrected informa-  
tion. We encourage you to supply any other material that might affect  
the staff's evaluation of this topic or be significant in the integrated  
assessment of your facility.

The need to actually implement a Loose Parts Monitoring Program will be  
determined during the integrated safety assessment.

Your response is requested as soon as possible. If no response is received  
by the time the next phase of the integrated assessment of your facility  
begins, we will assume that you have no comments or corrections.

Sincerely,

Dennis M. Crutchfield, Chief  
Operating Reactors Branch No. 5  
Division of Licensing

Enclosure:  
As stated

cc w/enclosure:  
See next page

8201040056 811229  
PDR ADOCK 05000029  
PDR

*SEO1  
S/1  
Add: Alan Wang  
DSU USE EX(11)*

|         |          |          |          |          |              |          |
|---------|----------|----------|----------|----------|--------------|----------|
| OFFICE  | SEP-B:DL | SEP-B:UL | SEP-B:DL | ORB#5:PM | ORB#4:BC     | AD:SA:DL |
| SURNAME | AWang:dk | SL       | WRussell | RCaruso  | DCrutchfield | GLainas  |
| DATE    | 12/28/81 | 12/28/81 | 12/28/81 | 12/28/81 | 12/24/81     | 12/18/81 |



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555  
December 29, 1981

Docket No. 50-029  
LS05-81- 12-098

Mr. James A. Kay  
Senior Engineer - Licensing  
Yankee Atomic Electric Company  
1671 Worcester Road  
Framingham, Massachusetts 01701

Dear Mr. Kay:

SUBJECT: SYSTEMATIC EVALUATION PROGRAM TOPIC III-8.A, LOOSE PARTS  
MONITORING AND CORE BARREL VIBRATION PROGRAM - YANKEE ROWE

Enclosed is a copy of our evaluation of Systematic Evaluation Program  
Topic III-8.A.

You are requested to examine the facts upon which the staff has based  
its evaluation and respond either by confirming that the facts are  
correct, or by identifying errors and supplying the corrected informa-  
tion. We encourage you to supply any other material that might affect  
the staff's evaluation of this topic or be significant in the integrated  
assessment of your facility.

The need to actually implement a Loose Parts Monitoring Program will be  
determined during the integrated safety assessment.

Your response is requested as soon as possible. If no response is received  
by the time the next phase of the integrated assessment of your facility  
begins, we will assume that you have no comments or corrections.

Sincerely,

*Walter A. Paulson*

*for* Dennis M. Crutchfield, Chief  
Operating Reactors Branch No. 5  
Division of Licensing

Enclosure:  
As stated

cc w/enclosure:  
See next page

Mr. James A. Kay

cc

Mr. James E. Tribble, President  
Yankee Atomic Electric Company  
25 Research Drive  
Westborough, Massachusetts 01581

Greenfield Community College  
1 College Drive  
Greenfield, Massachusetts 01301

Chairman  
Board of Selectmen  
Town of Rowe  
Rowe, Massachusetts 01367

Energy Facilities Siting Council  
14th Floor  
One Ashburton Place  
Boston, Massachusetts 02108

U. S. Environmental Protection  
Agency  
Region I Office  
ATTN: Regional Radiation Representative  
JFK Federal Building  
Boston, Massachusetts 02203

Resident Inspector  
Yankee Rowe Nuclear Power Station  
c/o U.S. NRC  
Post Office Box 28  
Monroe Bridge, Massachusetts 01350

SYSTEMATIC EVALUATION PROGRAM

TOPIC II-8.A

YANKEE ROWE

TOPIC: III-8.A, LOOSE PARTS MONITORING AND CORE BARREL VIBRATION PROGRAM

I. INTRODUCTION

The purpose of this topic is to review the inservice surveillance program to detect loose parts and excessive motion of the main core support structure. The objective is to detect loose parts or excessive vibration before they can cause flow blockage or mechanical damage to the fuel or other safety related components.

II. REVIEW CRITERIA

Standard Review Plan (SRP) Section 4.4, Regulatory Guide (R.G.) 1.133.

III. RELATED SAFETY TOPICS AND INTERFACES

V-1 Compliance with codes and standards (10 CFR 50.55a).

IV. REVIEW GUIDELINES

See Evaluation.

V. Evaluation

1. LOOSE PARTS MONITORING:

R.G. 1.133, "Loose-Part Detection Program for the Primary System of Light-Water-Cooled Reactors," Revision 1, describes features for monitoring loose parts within the reactor coolant pressure boundary (RCPB). These features include sensors strategically located on the exterior surface of the RCPB capable of detecting acoustic disturbances, specifications for system sensitivity, alert levels, data acquisition modes and other system and procedural requirements. Yankee Rowe does not have a loose parts monitoring program that meet the criteria of this guide.

2. CORE BARREL VIBRATION:

This issue is only a problem for Combustion Engineering built plants.

VI. CONCLUSION

1. A Loose Parts Monitoring Program, (i.e., detection system and procedures as specified in Section C.2 and C.3 of R.G. 1.133, Rev. 1) as currently required for new facilities does not exist at the Yankee Rowe facility. The need to actually implement a Loose Parts Monitoring Program will be determined during the integrated assessment.
2. This issue has been deleted for Yankee Rowe.