

March 4, 1982

Docket No. 50-213  
LS05-82-03-022



Mr. W. G. Council, Vice President  
Nuclear Engineering and Operations  
Connecticut Yankee Atomic Power Co.  
Post Office Box 270  
Hartford, Connecticut 06101

Dear Mr. Council:

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

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 cor-  
rect, or by identifying errors and supplying the corrected information.  
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 within 30 days of receipt of this letter.  
If no response is received by that time we will assume that you have no  
comments or corrections.

Sincerely,

SE04  
s/

DSU use(02)

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

ADD:  
G. Staley  
S. Brown

Enclosure:  
As stated

cc w/enclosure:  
See next page

3/4/82

OFFICE	SEP B	SEP B	SEP B	ORB #5	ORB #5	AD SA:DL
SURNAME	SBrown:bt	RHermann	WRussell	CTropf	DCrutchfield	GLainas
			2/10/82	2/11/82	3/2/82	3/1/82

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PDR ADOCK 05000213  
PDR

OFFICIAL RECORD COPY

Mr. W. G. Council

cc

Day, Berry & Howard  
Counselors at Law  
One Constitution Plaza  
Hartford, Connecticut 06103

Superintendent  
Haddam Neck Plant  
RFD #1  
Post Office Box 127E  
East Hampton, Connecticut 06424

Mr. Richard R. Laudenat  
Manager, Generation Facilities Licensing  
Northeast Utilities Service Company  
P. O. Box 270  
Hartford, Connecticut 06101

Russell Library  
119 Broad Street  
Middletown, Connecticut 06457

Board of Selectmen  
Town Hall  
Haddam, Connecticut 06103

State of Connecticut  
Office of Policy and Management  
ATTN: Under Secretary Energy  
Division  
80 Washington Street  
Hartford, Connecticut 06115

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

Resident Inspector  
Haddam Neck Nuclear Power Station  
c/o U. S. NRC  
East Haddam Post Office  
East Haddam, Connecticut 06423

Ronald C. Haynes, Regional Administrator  
Nuclear Regulatory Commission, Region I  
Office of Inspection and Enforcement  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

SYSTEMATIC EVALUATION PROGRAM  
TOPIC III-8.A

HADDAM NECK

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 2, 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. Haddam Neck does not have a loose parts monitoring program that meets the criteria of this guide.

2. CORE BARREL VIBRATION:

This concern is only for plants built by Combustion Engineering and has been resolved generically.

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 Haddam Neck.
2. This issue is deleted for Haddam Neck.

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