NORTHEAST UTILITIES

THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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November 5, 1982

Docket No. 50-245
A02831

Mr. Ronald C. Haynes
Regional Administrator
Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Reference: (1) I&E Bulletin No. 82-03, dated October 14, 1982

(2) W. G. Counsil letter to R. C. Haynes, dated October 28, 1982

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
Response to I&E Bulletin No. 82-03

In Reference (1) Northeast Nuclear Energy Company (NNECO) was requested to take certain actions with respect to the inspection of large-diameter stainless steel recirculation system piping. Of the four (4) action items requested of NNECO, three are to be completed before resuming power operations following the current refueling outage; these are addressed below. The remaining item will be addressed in future correspondence.

Action Item 1:

Before resuming power operations following the current refueling or extended outage, the licensee is to demonstrate the effectiveness of the detection capability of the ultrasonic methodology used or planned to be used to examine welds in recirculation system piping. This demonstration shall be made on representative service-induced cracked pipe samples. Arrangements should be made to allow NRC to witness this demonstration. This demonstration shall employ those procedures and standards, the same type of equipment (same transducer size, frequencies and calibration standards), and representative UT personnel from the inservice inspection (ISI) organization utilized or to be utilized in the examinations at the plant site.

IE11

Response:

On October 22, 1982 two teams of UT personnel from the inservice inspection organizations (Ebasco Corporation and Northeast Utilities Service Company (NUSCO)) utilized by NNECO inspected the five pipe samples made available at Battelle Memorial Institute. Ebasco personnel were brought since they were utilized in the recirculation system piping inspection. Indications found by Ebasco and NUSCO Level II inspectors were evaluated and dispositioned by the NUSCO Level III inspector. Equipment and procedures used in the demonstration were those used during the inspection of the Millstone Unit No. 1 recirculation system piping this outage. This demonstration was witnessed by Mr. R. McBrearty, USNRC Region I, and the results were pronounced acceptable prior to our departure from Battelle.

Following this demonstration the NRC Staff contacted NNECO by telephone and questioned the acceptability of the Ebasco examiner. Reference (2) replied by outlining NNECO's reasons for concluding that its inservice inspection program for detection of intergranular stress corrosion cracking (IGSCC) in service sensitive piping is acceptable. In further telephone conversations, the NRC Staff agreed we have adequately demonstrated the effectiveness of the detection capability of our UT methodology used to examine welds in the recirculation piping system. Therefore, no further action on this item is required.

Action Item 2:

.Before resuming power operations following the current refueling or extended outage, the licensee is to provide a listing of results of recirculation system piping inspections.

Response:

See the attached table.

Action Item 3:

Before resuming power operations following the current refueling or extended outage, the licensee (if the inspections indicate the presence of cracks) is to describe the corrective actions taken and report these in accordance with the appropriate regulations.

Response:

The inspection revealed no reportable indications present in the recirculation system, therefore no corrective action is needed.

We believe the above adequately addresses those action items required prior to resumption of power operation. We remain confident that our inspection program can effectively discover cracks in the various piping systems utilized in Millstone Unit No. 1. We remain available should the Staff require further clarification.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Counsil
Senior Vice President

STATE OF CONNECTICUT)
) ss. Berlin November 5, 1982
COUNTY OF HARTFORD)

Then personally appeared before me W. G. Counsil, who being duly sworn, did state that he is Senior Vice President of Northeast Nuclear Energy Company, a Licensee herein, that he is authorized to execute and file the foregoing information in the name and on behalf of the Licensees herein and that the statements contained in said information are true and correct to the best of his knowledge and belief.

Sheila M. Oates
Notary Public
My Commission Expires March 31, 1986

MILLSTONE UNIT NO. 1

1982 REFUELING OUTAGE

RECIRCULATION PIPING ISI RESULTS

WELD ID	LOCATION	INDICATION DESCRIPTION		DISPOSITION
		LOCATION	%DAC	
RCAF-1	Nozzle to SE-28"	360° Intermittent	60%	NRI
RRAF-1	Nozzle to SE-12"	No Reportable Indication (NRI)		
RRBF-1	Nozzle to SE-12"	NRI		
RRCF-1	Nozzle to SE-12"	360° Intermittent	100% Max.	NRI
RCAJ-1	Pipe to SE-28"	9:30 - 10:00 12:00	100% - 125%	Slag-Original Radiograph
RCBJ-8	Pipe to Elbow-28"	11:00	100% Max.	NRI
RMBJ-5	Manifold to Cross-22"	NRI		
RRAJ-1	SE to Pipe 12"	360° Intermittent	100% Max.	NRI
RRBJ-4	Pipe to Sweepolet-12"	NRI		
RRCJ-1	SE to Pipe 12"	360° Intermittent	100% Max.	NRI
RMBJ-RRG	Sweepolet to Manifold-22"	NRI		
RCB-29	3" Pipe to 28" Pipe	Surface Exam Only-NRI		
RCBJ-36	2" Pipe to valve	Surface Exam Only-NRI		