



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

MAY 06 1985

PDR  
016

Mr. Lyle Graber  
Licensing Engineer  
Licensing Information Service  
NUS Corporation  
2536 Countryside Boulevard  
Clearwater, FL 33575-2094

IN RESPONSE REFER  
TO FOIA-85-296

Dear Mr. Graber:

This is in response to your letter dated April 22, 1985, in which you requested, pursuant to the Freedom of Information Act, that a copy of the enclosures to an NRC letter to Pennsylvania Power and Light Company concerning a request for additional information regarding the Inservice Inspection Program, dated September 12, 1984, be placed in the Public Document Room (PDR).

The enclosure to that letter is being placed in the PDR, 1717 H Street, NW, Washington, DC 20555, for your inspection and copying. The document will be filed in folder FOIA-85-296 under your name.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. M. Felton", written over a horizontal line.

J. M. Felton, Director  
Division of Rules and Records  
Office of Administration

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PDR FOIA  
GRABER-85-296 PDR

SEP 12 1984

Docket No.: 50-387

Mr. Norman W. Curtis  
Vice President  
Engineering and Construction - Nuclear  
Pennsylvania Power & Light Company  
2 North Ninth Street  
Allentown, Pennsylvania 18101

Dear Mr. Curtis:

Subject: Request for Additional Information Regarding Susquehanna Steam  
Electric Station, Unit 1 - Inservice Inspection Program

DISTRIBUTION

Docket File 50-387

NRC PDR

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RPerch

~~EHylton~~

ASchwencer

NGrace

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ACRS (16)

Attorney, OELD

The Materials Engineering Branch of the NRC staff has completed the review of available information concerning the Inservice Inspection Program (ISI) for Susquehanna Unit 1. To complete our review of the ISI Program, additional information is required and is identified in Enclosure 1.

The NRC staff is prepared to discuss the resolution of this issue. If you have any questions regarding this matter, please contact R. Perch, Project Manager.

Sincerely,

A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing

Enclosure:  
As stated

cc: See next page

DL:LB#2  
RPerch/yt  
9/11/84

DL:LB#2  
ASchwencer  
9/11/84

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SUSQUEHANNA

Mr. Norman W. Curtis  
Vice President  
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Harrisburg, Pennsylvania 17120

ATTACHMENT

REQUEST FOR ADDITIONAL INFORMATION  
INSERVICE INSPECTION PROGRAM

Susquehanna Steam Electric Station Unit 1

By letter dated June 30, 1983 (1), from N. W. Curtis (PP&L) to A. Schwencer (NRC), the licensee submitted a proposed Inservice Inspection (ISI) Program for Susquehanna's first 10-year inspection interval. The NRC staff will be evaluating this program and the documents referenced in it and other documents (see attached document review list) to review your ISI Program. The staff will also use this material to review the sample of welds selected for examination and requests for relief from impractical examinations required by Section XI, 1980 Edition, Winter 1980 Addenda of the ASME Boiler and Pressure Vessel Code, along with the required portions of Section XI, 1974 Edition, Summer 1975 Addenda that apply to the Residual Heat Removal, Emergency Core Cooling, and Containment Heat Removal Systems. If there are any additional relief requests or supporting information that you wish to be considered, provide the staff with copies. If they have been previously furnished to the NRC, please document by reference.

The following questions address the program and the specific relief requests.

ISI PROGRAM

1. Although the initial ISI Program submittal (2) contained a Section 5.0 titled, "Inservice Inspection Program Tables," a similar section was not included in the revised plan.

Provide a revised edition of these tables reflecting the current code requirements and the inspection isometric drawings, which are essential for the staff evaluation of the ISI Program.

2. The code requirements for extent and frequency of examination under examination Categories B-J and C-F, Pressure Retaining Welds in Piping, depend on the weld configuration. In particular, welds in areas of high stress, dissimilar metal welds, welds at terminal ends and branch connections, and welds at structural discontinuities require examination during each interval. In the material to be provided under 1 above, indicate the method that these specific requirements were applied to determine the extent and frequency of examinations under Categories B-J and C-F and illustrate by example for a typical zone or system.
3. In the ISI Program <sup>(1)</sup>, Table 6.0 page 8 of 18 omits "Code Category B-M-1, Item Number B12.31: Valves Nominal Pipe Size  $\geq$  4 in." Please discuss the omission of this item.
4. No examination procedures were referenced in the ISI Program <sup>(1)</sup> that would allow the staff to determine that suitable ultrasonic

procedures are being used for detecting inservice flaws. Are the following documents that were cited during PSI review still applicable?

- (a) AI Nuclear Energy Services, Inc., Document No. 80A2770 Rev. 3 5/18/79: Ultrasonic Examination, General Requirements, Pennsylvania Power and Light Company, Susquehanna Steam Electric Station Units 1 and 2.
- (b) AI Nuclear Energy Services, Inc., Document No. 80A2771 Rev. 4, 8/8/79: Ultrasonic Examination Procedures for Piping Welds, Susquehanna Steam Electric Station Units 1 and 2.
- (c) FF107160, 8856-M166-15-4, Specifications No. ISE-QAI-322, Rev. 3, 4/2/78: Ultrasonic Examination of Similar and Dissimilar Metal Welds for Susquehanna.

If there are newer applicable revisions, please reference them and summarize any significant changes.

- 5. In Reference 3, Item c, PP&L states, "The Inservice Inspection Program will include requirements for augmented periodic ultrasonic and liquid penetrant testing to determine the inservice integrity of feedwater nozzles in accordance with the schedule in NUREG 0619, Table 2,

Routine Inspection Intervals and the provisions of Section 4.3, 'Inspection'. "Identify the section of the plan that addresses this commitment.

6. Reference 4 (under Item IV, Response to Guidance in NUREG 0803, Table 5.1) stated that the ISI program has been revised to include ISI of the SDV piping, commensurate with Section XI inspection requirements for Class 2 piping. Identify the section of the plan that addresses this commitment.

#### RELIEF REQUESTS

##### IRR-4, Class 2, Categories C-F and G-G, Pressure Retaining Welds in Core Spray and RHR Pumps

Relief is requested from the volumetric examinations. Will an internal visual or surface examination be made of the pressure retaining welds in the Core Spray and RHR pumps if the pumps are disassembled for maintenance?

##### IRR-7, Category B-D, Full Penetration Welds of Nozzles in Vessel, Inspection Program B

Relief is requested from 100% volumetric examination requirements for



feedwater inlet nozzles N4A and N4D due to geometric restrictions. In the ISI Program <sup>(1)</sup> it was stated that the 60-degree segments of the two feedwater inlet nozzles N4A and N4D that cannot be inspected automatically will be examined manually to the extent possible.

Please provide sketches of Nozzles N4A and N4D, showing dimensions and proximity to Nozzles N11A and N11B and a narrative description of the reason that full volumetric examination cannot be accomplished using a combination of automated and manual scanning techniques. Also indicate approximately what fraction of the 60-degree segment not covered by automatic inspection can adequately be covered by manual inspection.

#### References

1. PLA-1732, N. W. Curtis to A. Schwencer, 6/30/83: Revised ISI Program and ISI Relief Request Information, PPL-01-0207.
2. PLA-619, N. W. Curtis to B. J. Youngblood, 1/27/81: Initial Inservice Inspection Program Submittal.
3. PLA-1075, N. W. Curtis to A. Schwencer, 5/3/82: Compliance with NUREG 0619.
4. PLA-987, N. W. Curtis to A. Schwencer, 12/29/81: Response to NUREG 0803.



## REVIEW DOCUMENT RECORD

Unit(s) Susquehanna 1

Sub 05

Date	ID number and Author - Recipient	Type	Subject Matter	Rec'd.
Various '79-'81	13 Isometrics - Source not known	--	ISI isometrics weld ID	2/27/84
9/30/80		Subm	FSAR 6.6 Rev. 17, dated 9/30/84	2/20/84
1/27/81	Curtis (PPL) to Youngblood (NRC)	Sub	PSI Program	4/16
5/19/81	Curtis (PPL) to Youngblood (NRC)	Sub	Additional info. on PSI: Response FSAR questions, PSI scoping documents, info. copies in ultrasonic examinations	2/27/84
6/11/81	Curtis (PPL) to Youngblood (NRC)	Sub		
6/16/81	Curtis (PPL) to Schwencer (NRC)	Ltr	Answers to NRC questions; includes relief requests	2/20/84
6/16/81	Curtis (PPL) to Schwencer (NRC)	Sub	Supplemental responses to FSAR questions	3/12/84
7/14/81	Curtis (PPL) to Schwencer (NRC)	Ltr	Re: NUREG-0803 Table 5.1 of NUREG	3/12/84
9/15/81	Curtis (PPL) to Schwencer (NRC)	Ltr	Use of NUREG-0313 PLA 927	2/20/84
12/29/81	Curtis (PPL) to Schwencer (NRC)	Ltr	Use of NUREG-0803 PLA 987	2/20/84
1/82		Sub	FSAR 6.6 Rev. 28, dated 1/82	2/20/84
4/2/82	Rhoads (PPL) to Hum (NRC)	Sub	Relief request; PLE-1708	4/16/84
4/23/82	Curtis (PPL) to Schwencer (NRC)	Sub	Relief requests 4, 5, 6, and 10	3/12/84
4/23/82	Curtis (PPL) to Schwencer (NRC)	Sub	Supplemental info. on FSAR Questions; Revs of RR's 4,5,6, 10	Duplicate
4/3/82	Curtis (PPL) to Schwencer (NRC)	Ltr	Use of NUREG-0619 PLA 1075	2/20/84

(Continued on pg 2):

## REVIEW DOCUMENT RECORD

Unit(s) Susquehanna 1Sub Q5

Date	ID number and Author - Recipient	Type	Subject Matter	Rec'd.
6/21/82	Johnston (NRC) to Tedesco (NRC)	Memo	Evaluation of PSI Program, Units 1 and 2	1/23/84
8/17/82	Curtis (PPL) to Schwencer (NRC)	Sub	PSI, Relief Request No. 14	3/12/84
8/20/82	Curtis (PPL) to Schwencer (NRC)	Sub	Updates PSI relief requests	3/17/84
10/28/82			IE Bulletin No. 82-03 (Rev. 1 or latest rev.): Stress Corrosion	
?			IE Bulletin No. 83-02 (Rev. 1 or latest rev.): Stress Corrosion	
3/3/83	Curtis (PPL) to Schwencer (NRC)	Sub	PSI Relief Requests	2/20/84
4/4/83	Curtis (PPL) to Schwencer (NRC)	Sub	PSI Program (table compiling)	3/12/84
4/12/83	Johnston (NRC) to Novak (NRC)	Memo	Evaluation of PSI Relief Requests	2/20/84
4/25/83	Schwencer (NRC) to Curtis (PPL)	SER	PSI Relief Request, NRC staff evaluation of SER	3/12/84
6/30/83	Curtis (PPL) to Schwencer (NRC)	Sub	ISI Plan and Relief Requests; Drawings - PLA-1732	1/23/84
?			Final Drawings - ISI Boundary	
10/19/83	Curtis (PPL) to Schwencer (NRC)	Ltr	Ultrasonic Inspection Pipe Weld	3/12/84
3/19/84	Johnston (NRC) to Novak (NRC)	Suppl. SER	SER Supplement on Unit 2 (background material)	3/22/84