

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
THE HARTFORD ELECTRIC LIGHT COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
NEW YORK WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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P.O. BOX 270
HARTFORD, CONNECTICUT 06101
(203) 666-6911

November 1, 1978

Docket No. 50-245

WGC-78-1-26

Director of Nuclear Reactor Regulation
Attention: Mr. D. L. Ziemann,
Chief Operating Reactors Branch #2
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Millstone Nuclear Power Station, Unit No. 1
Inservice Inspection Class II Report

In accordance with the requirements of Section XI of the ASME code, enclosed please find four (4) copies of the Inservice Inspection Class II Report for Millstone Unit No. 1, 1978.

This report was prepared by the Millstone 1 Inservice Inspection Engineering Group. The examinations were performed by NNECO personnel and personnel from the Nondestructive Test Engineering Division of the Hartford Steam Boiler Inspection and Insurance Company.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Council
W. G. Council
Vice President

WGC/JJL:rmj

Enclosures (4)

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INSERVICE INSPECTION
CLASS II REPORT
FOR
MILLSTONE UNIT NO. 1
1978

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CLASS II INSERVICE INSPECTION PROGRAM

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER Northeast Nuclear Energy Company, P.O. Box 270, Hartford, Ct. 06101
2. PLANT Millstone Unit #1, P. O. Box 128, Waterford, Ct. 06385
3. CAPACITY 2011 MWt 682 MWe
4. OWNER CERTIFICATE OF AUTHORIZATION None
5. COMMERCIAL SERVICE DATE December 28, 1970
6. NATIONAL BOARD NUMBER FOR REACTOR VESSEL 20797

(No other national board number or state numbers assigned to components.)

7. COMPONENTS INSPECTED

<u>System</u>	<u>Description</u>	<u>Material</u>	<u>Manufacturer</u>
Isolation Condenser	12"x.687 Nom Wall	A358 cl. 1 304SS	Dravo
Core Spray	10" SCH 40	A-106-B	Dravo
L.P.C.I. Cross Tie	18" SCH 40	A-106-B	Dravo
L.P.C.I. Heat Exchanger	Carbon Steel	A-212 Gr. B.	Perfex
Isolation Condenser	Bolting		Struthers Wells
Support, Members and components for piping, valves, and pumps.			Bergen-Patterson Teledyne

8. EXAMINATION DATES February 1, 1978 to September 15, 1978
9. INSPECTION INTERVAL September, 1977 to December, 1980.
10. ABSTRACT OF EXAMINATIONS

Volumetric, Surface, and Visual Examinations were conducted in conformance with Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition including the Summer 1975 Addenda: Categories C-A, C-B, C-C, C-D, C-E-1, C-E-2, C-F and C-G.

11. ABSTRACT OF CONDITIONS NOTED

Reportable conditions were noted in the Low Pressure Coolant Injection, L.P.C.I. cross connection, Core Spray and Isolation Condenser Systems. The conditions are described in Reportable Occurrence Na RO-78-7 and RO-78-8. Receipt Inspection of the Ultrasonic Calibration Standards revealed noncompliance with the ASME Chapter XI. Discrepancies were found to be poor workmanship by the vendor's sub-tier and failure of the Vendor's Q.A. Department to inspect prior to shipment.

During the performance of the examination, discrepancies were discovered in the owner's isometric drawings.

12. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN.

The reportable conditions identified were corrected or dispositioned as acceptable pending NUSCo evaluation of the affected systems.

Millstone Unit 1 Non-Conformance Report No. 1-16-78 was issued identifying the discrepancies. The calibration standard acoustic properties were tested and found acceptable and were used.

The Owner has initiated a program to revise the plant drawings.

We certify that the statements made in this report are correct and the examination and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date October 26 1978

Signed Northeast Nuclear Energy Co.
Northeast Nuclear Energy Co.

By J. Opoka
J. Opoka, Station Superintendent

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Connecticut and employed by Hartford Steam Boiler Inspection and Insurance Co. of Hartford, Conn. have inspected the components described in this Owners' Data Report during the period February 1, 1978 to September 15, 1978, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examination and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/26/78

Commissions Nat'l Bd. 7933 Conn. 986
National Board, State, Province and No.

Robert Smith
Inspector's Signature

INTRODUCTION

This report contains the results of the first Class II Inservice Inspection of the Millstone Nuclear Power Station Unit I. The examinations were conducted from February 1978 to September 1978. The inspection was performed to meet the requirements of the ASME Boiler and Pressure Vessel Code Section XI, 1974 Edition, including the Summer 1975 Addenda.¹

The examinations were performed by NNECO personnel and personnel from the Nondestructive Test Engineering Division of the Hartford Steam Boiler Inspection and Insurance Company.

All records, examination data sheets, personnel certifications, equipment and material certifications for the inspections performed, are on file at the Millstone Nuclear Power Station Unit I.

The asterisk following an inspection item in the examination results of this report denotes a creditable item in the Inservice Inspection Ten-Year Class 2 Program.

Note 1: Appendix 3 of Section XI, Winter 1975 Addenda, was used for THE ULTRASONIC EXAMINATION OF CLASS 2 PIPING SYSTEMS.

SUMMARY

Volumetric, surface and visual examinations were performed as required by Section XI of the ASME Boiler and Pressure Vessel Code, 1974 Edition including the summer 1975 Addenda.

Unacceptable discontinuities regarding visual examination items of category C-E-2 were revealed during the performance of the inspection. The magnitude of the discontinuities necessitated a complete visual inspection of hangers in accordance with article IWC-2430 of the ASME Code. This expanded examination revealed further unacceptable structural defects in the Isolation Condenser, Core Spray, Low Pressure Coolant Injection and Low Pressure Coolant Injection Cross Connection Systems. These systems were reanalyzed and several hangers/restraints per system were redesigned and reworked by Teledyne Engineering Services of Waltham, Mass. Specific hangers/restraints that were redesigned by Teledyne are identified in the examination results of this report. Engineering Work Request No. 457 was submitted by Northeast Nuclear Energy Co. Engineering to the Northeast Utilities Service Co. (NUSCo) requesting assistance to investigate and evaluate the overall hanger design on the affected systems.

Ultrasonic examinations of pipe welds on the L.P.C.I. crossover line revealed a recordable indication on two pipe welds. These indications were dispositioned to be surface indications. The two welds were prepared for ultrasonic testing for reinspection at the request of the authorized inspector and were reinspected with no reportable indications.

Liquid penetrant inspection on the "A" Low Pressure Coolant Injection Heat Exchanger revealed porosity and a linear indication. Weld was reworked, reinspected and accepted.

Hydrostatic tests were performed on portions of the Condensate, Condensate Booster and Isolation Condenser systems. No leakage or evidence of leakage was detected in any of the tests.

Receipt Inspection of the Ultrasonic Calibration Standards revealed noncompliance with the ASME Chapter XI. Discrepancies were found to be poor workmanship by the vendor's supplier and failure of the vendor's Q.A. Department to inspect prior to shipment. Millstone Unit 1 Non-Conformance Report No. 1-16-78 was issued identifying the discrepancies. The calibration standards acoustic properties were tested and found acceptable and were used.

During the performance of the examinations, discrepancies were discovered in the owner's isometric drawings. The Owner has initiated a program to review and revise the plant drawings.

DEFINITIONS

Volumetric: Ultrasonic Test (U.T.)
Visual: Visual Examination (V.T.)
Surface: Penetrant Test (P.T.)
Reportable Indications: Those indications reported to the customer, which equal or exceed the recording requirements of the respective procedure and that are determined not to be geometric reflectors after preliminary evaluation by a Level III.

No Reportable Indications:
N.R.I. (U.T.)

- a) Those indications which are less than the recording requirements of the respective procedure.
- b) Those indications which equal or exceed the recording requirements of the respective procedure but that are determined to be caused by geometric reflectors after preliminary evaluation by a Level III.

Satisfactory:
(V.T.)

Those visual examinations for which no degradation of component integrity was observed, that meets the requirements of the respective procedure.

No Reportable Indications:
N.R.I. (P.T.)

Those surface examinations which resulted in readings within the acceptance criteria listed in the respective procedure.

ULTRASONIC TEST INSTRUMENT LIST

<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SERIAL NO.</u>
KrautKramer-Branson, Inc.	USM2MT	10005
" " "	USM2	10001
" " "	USM2MT	10002

ULTRASONIC TRANSDUCER LIST

<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SERIAL NO.</u>	<u>FREQUENCY (MHz)</u>
Nortec	ZL-Z-1/2 x 1-2.25	1845	2.25
Nortec	K-Z-12-.25	2181	2.25
Nortec	ZL-Z-1/2 x 1-2.25	1844	2.25
Nortec	V-M-12-2.25	3111	2.25
Nortec	ZL-Z-1/2 x 1-2.25	3113	2.25
Nortec	V-M-8-2.25	3112	2.25
Nortec	ZL-Z-1/2 x 1-2.25	3089	2.25
KB-Aerotech	Gamma	DO 5858	2.25
KB-Aerotech	Gamma	DO 5862	2.25

MATERIAL LIST

<u>ITEM</u>	<u>MANUFACTURER</u>	<u>TYPE</u>	<u>BATCH NO.</u>
U.T. Couplant	Echo Laboratories	Sonotrace 20	11177
U.T. Couplant	Echo Laboratories	Sonotrace 20	12977
P.T. Cleaner	Magnaflux Corp	SKC-NF Formula B	7C088
P.T. Cleaner	Magnaflux Corp.	SKC-NF Formula B	7C031
P.T. Cleaner	Magnaflux Corp.	SKC-S	7M054
P.T. Developer	Magnaflux Corp.	SKD-S	78A020
P.T. Penetrant	Magnaflux Corp.	SKL-HF/S Formula B	7H141

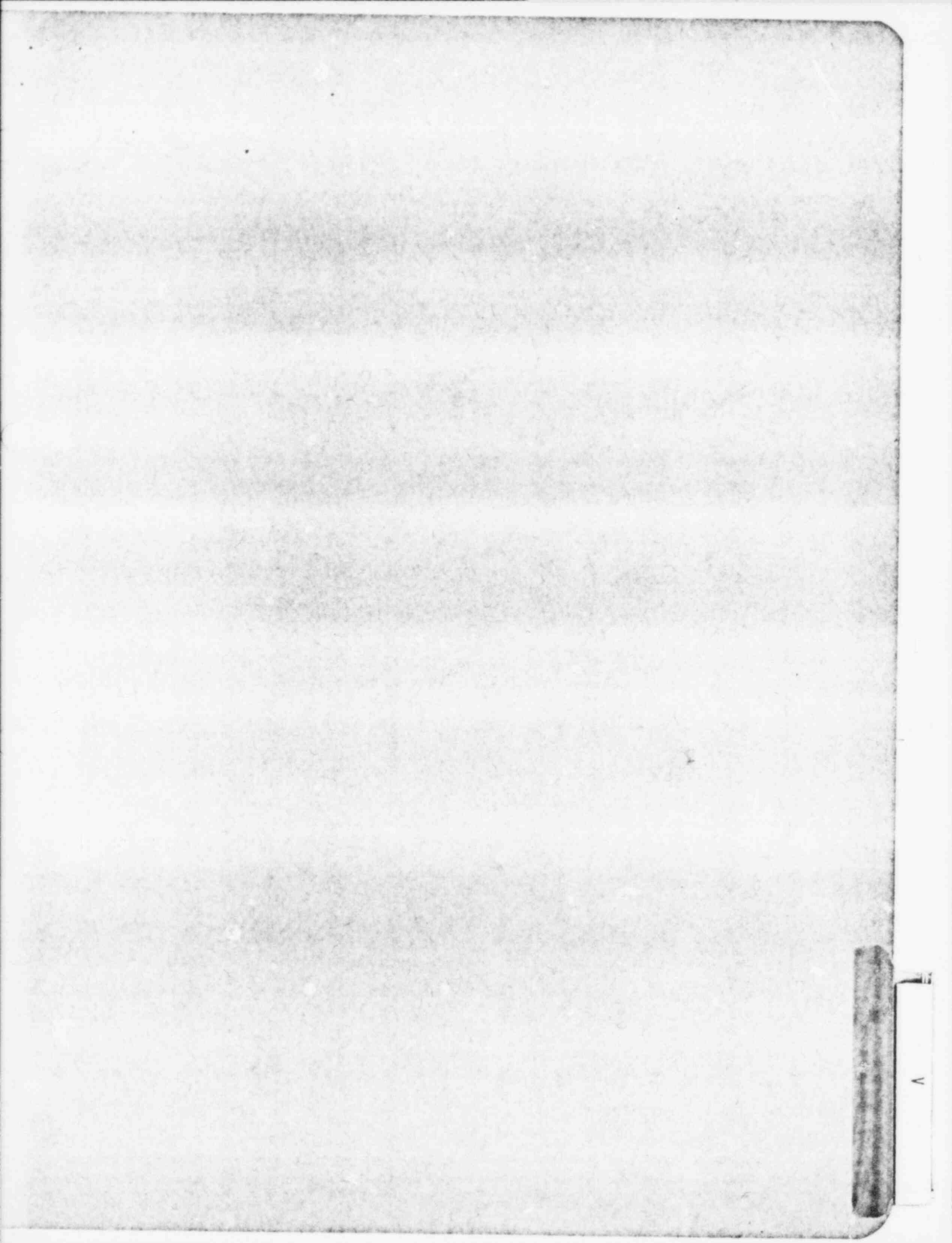
N.D.E. PROCEDURES

<u>PROCEDURE NUMBER</u>	<u>REVISION</u>	<u>TITLE</u>
3200	8/18/77	Visual Examination Procedure for I.S.I. Class II Components
4200	8/22/77	Procedure for Liquid Pene- trant Examination of Class II Components
6220	3/2/78	Ultrasonic Examination of Butt Welds for I.S.I. Class II Nuclear Piping
1100	6/4/76	Qualification and Certification of Nondestructive Testing Personnel

PERSONNEL QUALIFICATIONS

Personnel who performed, assisted or reviewed and approved examination results are listed below.

<u>NONDESTRUCTIVE TEST ENG. CO.</u>	<u>METHOD</u>	<u>LEVEL</u>
Richard Adams	Visual, P.T.	II, I
Claude Chmielewski	Visual	II
Gerry Coursen	U.T., P.T.	II, II
Frederick Frongillo Jr.	Visual, P.T., U.T.	II, II, II
William Gemnell	Visual, U.T., P.T.	II, II, II
Earl Hassell	Visual, P.T.	II, II
John W. Huffman	Visual, U.T., P.T.	II, III, III
Randolph Mills	P.T.	II
Steven L. Sikorski	Visual, U.T.	II, II
Michael R. Tipton	Visual, U.T., P.T.	Trainee
James Wolf	Visual, U.T., P.T.	II, II, II
<u>NNECO</u>		
Kenneth B. Thomas	Visual, P.T.	II, II
<u>NUSCO</u>		
Joseph Stankoski	Visual, U.T., P.T.	III, III, III



CLASS II INSERVICE INSPECTION

EXAMINATION RESULTS

CATEGORY C-A

EXAMINATION AREA: Pressure Retaining Welds in Pressure Vessels

EXAMINATION METHOD: Surface (Penetrant Test)

EXAMINATION ITEM

RESULTS

REMARKS

LPCI Heat Exchanger

CCA-C-A-2*

No reportable indications

Initial inspection revealed porosity and a linear indication. Weld was reworked, reinspected and acceptable.

CATEGORY C-B

EXAMINATION AREA: Pressure Retaining Nozzle Welds in Vessels

EXAMINATION METHOD: Surface (Penetrant Test)

EXAMINATION ITEM

RESULTS

REMARKS

LPCI Heat Exchanger
Inlet Nozzle

CCA-C-B-1*

No reportable indications

Examination covered
100% of weld area.

CATEGORY C-C

EXAMINATION AREA: Integrally Welded Support Attachments to Vessels

EXAMINATION METHOD: Surface (Penetrant Test)

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
LPCI Heat Exchanger Support Bracket		
CCA-C-C-1*	No reportable indications	None

CATEGORY C-D

EXAMINATION AREA: Pressure Retaining Bolting Exceeding One Inch
in Diameter

EXAMINATION METHOD: Visual (V.T.) and Either Surface (P.T.) or
Volumetric (U.T.)

<u>EXAMINATION ITEM</u>	<u>TYPE EXAM</u>	<u>RESULTS</u>	<u>REMARKS</u>
Isolation Condenser			
Studs ICC-DS-1 thru 25*	V.T.	No reportable indications	Initial Inspection noted various degrees of thread damage. Discontinuities and reported thread damage was dis- positioned by NUSCo Level III. All items found to be within acceptable limits.
Studs ICC-DS-26, 27, 28*	P.T.	No reportable indications	Slight thread damage was noted and does not interfere with structural integrity.
Studs ICC-DN-1 thru 28*	V.T.	No reportable indications	Inspection noted Discontinuities, corrosion and thread damage. Disposition- ed by NUSCo Level III and found to be with- in acceptable limits.

CATEGORY C-E-1

EXAMINATION AREA: Support Members for Piping, Pumps and Valves

EXAMINATION METHOD: Surface (Penetrant Test)

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>Isolation Condenser</u>		
ICAC-E-1-1*	N.R.I.	Redesigned by Teledyne Eng. Services
ICBC-E-1-1*	N.R.I	None
ICBC-E-1-4	N.R.I	Weld spatter noted. Was dispositioned by NUSCo Level III and found to be within acceptable limits.
<u>Core Spray</u>		
CSAC-E-1-4*	N.R.I	Redesigned by Teledyne Eng. Services
CSAC-E-1-6	N.R.I	None
CSAC-E-1-7	N.P.I	None
CSAC-E-1-9	N.R.I	Surface conditions noted. Conditions dispositioned by NNECo Level II as poor workmanship, and are not service generated defects.
CSAC-E-1-11	N.R.I	None
CSBC-E-1-1	N.R.I	None
CSBC-E-1-3*	N.R.I	None
CSBC-E-1-6	N.R.I	None
<u>LPCI</u>		
CCAC-E-1-9*	N.R.I	None
<u>LPCI Cross Tie</u>		
CCC-E-1-1*	N.R.I.	None
CCC-E-1-11	N.R.I	None

CATEGORY C-E-2

EXAMINATION AREA: Support Components for Piping, Pumps and Valves

EXAMINATION METHOD: Visual

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>Main Steam</u>		
MSCC-E-1-3*	Satisfactory	None
<u>Isolation Condenser</u>		
ICAC-E-1-1	Satisfactory	Redesigned by Teledyne Eng. Services
ICAC-E-1-2	Satisfactory	Redesigned by Teledyne Eng. Services
ICAC-E-1-3	Load Setting out of adjustment	Accept as is pending NUSCO evaluation of System
ICAC-E-1-4	Satisfactory	Redesigned by Teledyne Eng. Services
ICAC-E-2-1	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
ICAC-E-2-2	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
ICAC-E-2-3	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
ICAC-E-2-4	Load setting out of adjustment	Accept as is pending NUSCO evaluation of system.
ICAC-E-2-5	Satisfactory	None
ICBC-E-1-1*	Satisfactory	None
ICBC-E-1-3	Mounting plate bracket unbolted	Accept as is pending NUSCO evaluation of system.
ICBC-E-1-4	Satisfactory	None
ICBC-E-2-1	Load settings out of adjustment	Accept as is pending NUSCO evaluation of system.

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
ICBC-E-2-2	Satisfactory	None
ICBC-E-2-3	Satisfactory	None
ICBC-E-2-4	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
ICBC-E-2-5	Load settings out of adjustment	Accept as is pending NUSCo evaluation of system.
<u>Core Spray</u>		
CSAC-E-1-1	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
CSAC-E-1-2	N/A	Removed I.A.W. Teledyne Eng. Services.
CSAC-E-1-3	Galled threads on hanger rod preventing tightening of turnbuckle lock nut.	Accept as is pending NUSCo evaluation of system. Load setting initially out of adjustment. Was adjusted and reinspected.
CSAC-E-1-4*	Satisfactory	Redesigned by Teledyne Eng. Services
CSAC-E-1-5	Satisfactory	None
CSAC-E-1-6	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
CSAC-E-1-7	Satisfactory	None
CSAC-E-1-8	Load setting out of adjustment	Accept as is pending NUSCo evaluation of system.
CSAC-E-1-9	Satisfactory	Hanger mounting plate was found separated from wall. Was reworked, reinspected and accepted.
CSAC-E-1-10	Satisfactory	Redesigned by Teledyne Eng. Services
CSAC-E-1-11	Load setting out of adjustment	Accept as is pending NUSCo evaluation of system.

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
CSAC-E-2-1	Satisfactory	Redesigned by Teledyne Eng. Services.
CSAC-E-2-2	Load setting out of adjustment	Accept as is pending NUSCo evaluation of system.
CSAC-E-2-3	Satisfactory	Load setting intially out of adjustment. Was adjusted, reinspected and accepted.
CSAC-E-2-4	Satisfactory	None
CSAC-E-2-5	Satisfactory	None
CSBC-E-1-1	Satisfactory	None
CSBC-E-1-2	Satisfactory	None
CSBC-E-1-3*	Satisfactory	Initial inspection revealed missing mounting plate nuts. Restraint was reworked, reinspected and accepted.
CSBC-E-1-4	Satisfactory	None
CSBC-E-1-5	Load setting nameplate is not installed.	Accept as is pending receipt of replacement nameplate per NUSCo purchase requisition.
CSBC-E-1-6	Satisfactory	None
CSBC-E-2-1	Satisfactory	None
CSBC-E-2-2	Satisfactory	None
CSBC-E-2-3	Satisfactory	None
CSBC-E-2-4	Satisfactory	None
CSBC-E-2-5	Satisfactory	None
CSBC-E-2-6	Satisfactory	Concrete grouting cracks noted. Evaluated by NUSCo as acceptable. To be repaired at a later date.
<u>L.P.C.I.</u>		
CCAC-E-1-1*	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
CCAC-E-1-2	Satisfactory	None
CCAC-E-1-3	Support tube is not centered on pad.	Accept as is pending NUSCo evaluation of system.
CCAC-E-1-4	Satisfactory	Redesigned by Teledyne Eng. Services.
CCAC-E-1-5	Satisfactory	Hanger was found to be twisted with load setting out of adjustment. Hanger was reworked, adjusted, reinspected and accepted.
CCAC-E-1-6	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected, and accepted.
CCAC-E-1-7	Satisfactory	Restraint was found to have broken members. Was reworked, reinspected and accepted.
CCAC-E-1-8	Satisfactory	Restraint mounting plate was pulled from wall. Was reworked, reinspected and accepted.
CCAC-E-1-9	Minor bolt misalignment and broken stud in wall mounting plate.	Accept as is pending NUSCo evaluation of system.
CCAC-E-1-10	Satisfactory	Ceiling mounting plates were pulled loose. Hanger was reworked, reinspected and accepted.
CCAC-E-1-11	Satisfactory	None
CCAC-E-1-12	Satisfactory	None
CCAC-E-1-13	Satisfactory	None
CCAC-E-1-14	Satisfactory	None
CCAC-E-1-15	Satisfactory	None
CCAC-E-1-16	Satisfactory	None
CCAC-E-1-18	Satisfactory	None

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
CCAC-E-1-19	Satisfactory	Restraint was found separated from wall. Was redesigned by Teledyne Eng. Services and accepted.
CCAC-E-1-20	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
CCAC-E-1-21	Satisfactory	None
CCAC-E-2-1	Satisfactory	Restraint had loose mounting bolts. Was redesigned by Teledyne Eng. Services and accepted.
CCAC-E-2-2	Satisfactory	Redesigned by Teledyne Eng. Service.
CCAC-E-2-3	Satisfactory	Initially misaligned. Was reworked, reinspected, and accepted.
CCAC-E-2-4	Load setting out of adjustment	Accept as is pending NUSCO evaluation of system.
CCAC-E-2-5	Satisfactory	Load settings initially out of adjustment. Was adjusted, reinspected and accepted.
CCAC-E-2-6	Satisfactory	Load settings initially out of adjustment. Was adjusted, reinspected and accepted.
CCAC-E-2-7	Satisfactory	None
CCAC-E-2-8	Satisfactory	Concrete grouting cracks noted. Evaluated by NUSCO as acceptable. To be repaired at a later date.
CCAC-E-2-9	Satisfactory	None
CCAC-E-2-10	Satisfactory	None
CCBC-E-1-1	Load setting out of adjustment	Accept as is pending NUSCO evaluation of system.

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
CCBC-E-1-2	Satisfactory	Mounting plate was pulling from wall. Hanger was reworked, reinspected and accepted.
CCBC-E-1-3*	Satisfactory	None
CCBC-E-1-4	Satisfactory	None
CCBC-E-1-5	Satisfactory	Concrete anchor bolts misaligned. Bolt misalignment does not impair weight bearing capability of the hanger and is entirely functional. Accept as is.
CCBC-E-1-6	Satisfactory	Restraint was separated from wall and ceiling. Was reworked, reinspected and accepted.
CCBC-E-1-7	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
CCBC-E-1-8	Restraint shows signs of sideward movement.	Accept as is pending NUSCO evaluation of system.
CCBC-E-1-9	Load setting out of adjustment.	Accept as is pending NUSCO evaluation of system.
CCBC-E-1-10	Satisfactory	None
CCBC-E-1-11	Satisfactory	None
CCBC-E-1-12	Satisfactory	Initial inspection revealed cracking of the concrete support pad. Pad was regouted, reinspected and accepted.
CCBC-E-1-13	Satisfactory	Mounting plate was pulled from ceiling. Was reworked, reinspected and accepted.
CCBC-E-2-1	Load setting out of adjustment	Accept as is pending NUSCO evaluating system.
CCBC-E-2-2	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
CCBC-E-2-3	Satisfactory	None
CCBC-E-2-4	Satisfactory	Load setting initially out of adjustment. Was adjusted, reinspected and accepted.
CCBC-E-2-5	Load setting out of adjustment	Accept as is pending NUSCo evaluation of system.
CCBC-E-2-6	Load setting nameplate is not installed.	Acceptable pending receipt of replacement nameplate per NUSCo purchase requisition.
CCBC-E-2-7	Satisfactory	Initial inspection revealed a missing mounting bolt. Hanger was reworked, re-inspected and accepted.
CCBC-E-2-8	Satisfactory	None
CCBC-E-2-9	Satisfactory	Concrete grouting cracks noted. Evaluated by NUSCo as acceptable. To be repaired at a later date.
CCBC-E-2-10	Satisfactory	Concrete grouting cracks noted. Evaluated by NUSCo as acceptable. To be repaired at a later date.
<u>L.P.C.I. Cross Tie</u>		
CCC-E-1-1	Support tube is not centered on pad. One pad anchor bolt is gouged.	Accept as is pending NUSCo evaluation.
CCC-E-1-2	Satisfactory	Redesigned by Teledyne Eng. Services.
CCC-E-1-6	Satisfactory	Redesigned by Teledyne Eng. Services.
CCC-E-2-3*	Satisfactory	Redesigned by Teledyne Eng. Services.
CCC-E-2-4	Satisfactory	Redesigned by Teledyne Eng. Services.

EXAMINATION ITEM

RESULTS

REMARKS

CCC-E-2-5	Satisfactory	Redesigned by Teledyne Eng. Services
CCC-E-2-7	Satisfactory	Redesigned by Teledyne Eng. Services
CCC-E-2-8	Satisfactory	Redesigned by Teledyne Eng. Services
CCC-E-2-9	Satisfactory	Redesigned by Teledyne Eng. Services
CCC-E-1-10	Satisfactory	Redesigned by Teledyne Eng. Services
CCC-E-1-11	Satisfactory	None
CCC-E-2-12	Satisfactory	None
CCC-E-2-13	Satisfactory	None

CATEGORY C-F

EXAMINATION AREA: Pressure Retaining Welds in Piping, Pumps and Valves
in Systems Which Circulate Reactor Coolant.

EXAMINATION METHOD: Volumetric (Ultrasonic Test)

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>Isolation Condenser</u>		
ICAC-F-12	No reportable indications	None
ICAC-F-13A	N.R.I.	None
ICAC-F-14*	N.R.I.	None
ICAC-F-15	N.R.I.	None
ICAC-F-16	N.R.I.	None
ICAC-F-17	N.R.I.	None
ICAC-F-21	N.R.I.	None
ICAC-F-23	N.R.I.	None
ICAC-F-24	N.R.I.	None
ICAC-F-25	N.R.I.	None
ICAC-F-26	N.R.I.	None

The following examination items were surface inspected (Penetrant Test) for information only.

ICAC-F-11	N.R.I.	None
ICAC-F-13	N.R.I.	None

CATEGORY C-G

EXAMINATION AREA: Pressure Retaining Welds in Piping, Pumps, and Valves
in Systems Which Circulate Other than Reactor Coolant.

EXAMINATION METHOD: Volumetric (Ultrasonic Test)

<u>EXAMINATION ITEM</u>	<u>RESULTS</u>	<u>REMARKS</u>
<u>Core Spray</u>		
CSAC-G-9*	No reportable indications	None
CSAC-G-10	N.R.I.	None
CSAG-G-27	N.R.I.	None
CSAC-G-28	N.R.I.	None
<u>L.P.C.I. Cross Tie</u>		
CCC-G-5	N.R.I.	None
CCC-G-8	N.R.I.	None
CCC-G-9	N.R.I.	None
CCC-G-10	N.R.I.	None
CCC-G-11	N.R.I.	Limited scan due to pipe hanger interference.
CCC-G-12	N.R.I.	None
CCC-G-13	N.R.I.	None
CCC-G-14	N.R.I.	None
CCC-G-14A	N.R.I.	None
CCC-G-16	N.R.I.	None
CCC-G-17	N.R.I.	Initial Inspection revealed a recordable indication dispositioned to be a surface indication. Weld was flapper- wheeled for reinspection at the request of the authorized inspector, was reinspected with no reportable indications.

EXAMINATION ITEMRESULTSREMARKS

CCC-G-18

N.R.I.

Initial inspection revealed a recordable indication dispositioned to be a surface indication. Weld was flapper-wheeled for reinspection at the request of the authorized inspector, was reinspected with no reportable indications.

CCC-G-19

N.R.I.

None

CCC-G-20*

N.R.I.

None

CCC-G-21

N.R.I.

None

CCC-G-22

N.R.I.

None

CCC-G-23

N.R.I.

None

CCC-G-24

N.R.I.

None

CCC-G-24A

N.R.I.

None

CCC-G-25

N.R.I.

None

CCC-G-26

N.R.I.

None

CCC-G-28

N.R.I.

None

CCC-G-29

N.R.I.

None

CCC-G-30

N.R.I.

None

CCC-G-31

N.R.I.

None

CCC-G-33

N.R.I.

None

CCC-G-33A

N.R.I.

None

CCC-G-34

N.R.I.

None

The following examination items were surface inspected (Penetrant Test) for information only.

Core Spray

CSAC-G-11

N.R.I.

None

EXAMINATION ITEMRESULTSREMARKS

CSAC-G-12	N.R.I.	None
CSAC-G-13	N.R.I.	None
CSAC-G-14	N.R.I.	None
CSAC-G-27	N.R.I.	None
CSAC-G-28	N.R.I.	None

L.P.C.I.

CCAC-G-4	N.R.I.	None
CCAC-G-6	N.R.I.	None
CCAC-G-25	N.R.I.	None
CCAC-G-27	N.R.I.	None
CCAC-G-28	N.R.I.	None
CCAC-G-66	N.R.I.	None
CCAC-G-67	N.R.I.	None
CCAC-G-68A	N.R.I.	None
CCAC-G-69	N.R.I.	None
CCAC-G-70	N.R.I.	None
CCAC-G-70A	N.R.I.	None
CCAC-G-71	N.R.I.	None

L.P.C.I. Cross Tie

CCC-G-1	N.R.I.	None
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