

ATTACHMENTS

Inservice Inspection Program Summary Report

First Outage, Second Period, Third Interval

Consolidated Edison Company of New York, Inc.
Indian Point Unit No. 2
Docket No. 50-247
October 1997

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TABLE OF CONTENTS

Attachment I	ISI NDE Examinations Summary
Attachment II	Owner's Report for ISI Inspection NIS-1

ATTACHMENT I

SUMMARY OF INSERVICE INSPECTION NON-DESTRUCTIVE
EXAMINATIONS PERFORMED ON QUALITY GROUP A AND B
(ASME CODE, SECTION XI CLASSES 1 AND 2)
COMPONENTS AND PIPING.

FIRST OUTAGE, SECOND PERIOD, THIRD INTERVAL

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NO. 2
DOCKET 50-247
OCTOBER, 1997

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NO. 2 NUCLEAR POWER PLANT
FIRST OUTAGE, SECOND PERIOD, THIRD INTERVAL
NON-DESTRUCTIVE EXAMINATION SUMMARY

INTRODUCTION

INSERVICE INSPECTIONS WERE PERFORMED FOR THE INDIAN POINT UNIT NO. 2 NUCLEAR POWER PLANT DURING AN OUTAGE FROM MAY 1997 TO JULY 1997.

EXAMINATIONS WERE PERFORMED TO SATISFY THE REQUIREMENTS OF:

1. THE CONSOLIDATED EDISON THIRD TEN YEAR INSERVICE INSPECTION PROGRAM.
2. PLANT TECHNICAL SPECIFICATIONS, AND
3. ASME BOILER AND PRESSURE VESSEL CODE, SECTION XI, 1989 EDITION WITHOUT ADDENDA.

THE FOLLOWING ITEMS WERE EXAMINED:

1. REACTOR HEAD
2. PRESSURIZER
3. STEAM GENERATOR 21
4. REACTOR COOLANT PUMP 23
5. RESIDUAL HEAT REMOVAL HEAT EXCHANGER 22
6. CLASSES 1 AND 2 PIPING, AND SUPPORTS

THE EXAMINATIONS PERFORMED ARE SUMMARIZED IN TABLE 1.

CERTIFICATION DOCUMENTS RELATIVE TO PERSONNEL, EQUIPMENT AND MATERIALS WERE REVIEWED AND DETERMINED TO BE SATISFACTORY PRIOR TO THE START OF EXAMINATIONS.

WITNESSING AND SURVEILLANCE OF THE EXAMINATIONS AND RELATED ACTIVITIES WERE CONDUCTED BY PERSONNEL FROM THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY AND CONSOLIDATED EDISON COMPANY OF NEW YORK. MANAGEMENT OVERVIEWS WERE CONDUCTED BY THE CONSOLIDATED EDISON NUCLEAR POWER QUALITY ASSURANCE DEPARTMENT.

VISUAL EXAMINATION REVEALED THE FOLLOWING INDICATION THAT WAS EVALUATED AND DETERMINED TO EXCEED THE ACCEPTANCE CRITERIA IN THE ASME SECTION XI, 1989 EDITION.

ONE (1) PIPE SUPPORT DID NOT CONFORM TO THE DESIGN REQUIREMENTS. THIS WAS EVALUATED BY ENGINEERING AND CORRECTED BY REPLACEMENT. ADDITIONAL EXAMINATIONS WERE PERFORMED WITH NO REPORTED INDICATIONS.

EXAMINATIONS ALSO REVEALED MINOR INDICATIONS IN FIVE (5) SUPPORTS, SUCH AS, LOOSE NUTS THAT WERE EVALUATED AND DETERMINED TO BE ACCEPTABLE. HOWEVER, MINOR MAINTENANCE WAS RECOMMENDED AND ACCOMPLISHED TO ENSURE CONTINUED SATISFACTORY PERFORMANCE FOR THE NEXT OPERATING PERIOD.

FIVE (5) PIPE SUPPORTS HAD CONDITIONS THAT WERE EVALUATED AS BEING NONSTRUCTURAL AND DID NOT IMPAIR OPERABILITY. THESE CONDITIONS WERE CORRECTED, REEXAMINED AND ACCEPTED.

THE EVALUATIONS OF VISUAL INDICATIONS WERE CONDUCTED BY CONSOLIDATED EDISON NUCLEAR ENGINEERING AND DISPOSITIONED, AS INDICATED.

DATA RELATIVE TO THE ABOVE INDICATIONS AND THEIR DISPOSITIONS ARE CONTAINED IN TABLE 2.

ATTACHMENT I

TABLE 1

ALL ITEMS LISTED BELOW WERE EXAMINED AS INDICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANT TECHNICAL SPECIFICATIONS, THE CONSOLIDATED EDISON INSERVICE INSPECTION PROGRAM, THE ASME BOILER AND PRESSURE VESSEL CODE, SECTION XI, 1989 EDITION WITHOUT ADDENDA, AND TO THE EXTENT PRACTICAL WITH THE ACCESS PROVIDED AND THE LIMITATIONS OF COMPONENT GEOMETRY.

IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
QUALITY GROUP A		
REACTOR VESSEL		
B01.22	REACTOR HEAD MERIDIONAL WELDS RVHM1 & RVHM6	X
B01.40	HEAD-TO-FLANGE WELD RVHC2 33%	X X
B08.10	INTEGRALLY WELDED ATTACHMENT ISWM1.	X
PRESSURIZER		
B02.11	SHELL-TO-HEAD WELD PZRC1 (1) 33%	X
B03.120	NOZZLE INSIDE RADIUS SECTION PZRN2	(1)
B05.40	DISSIMILAR METAL WELDS PZRS4 & 5	X X
B07.20	BOLTING < 2" DIAMETER PZRB 5, 6, 7 & 8.	X
B08.20	INTEGRALLY WELDED ATTACHMENT PZR IWS A (33%)	X
REACTOR COOLANT PUMP 23		
B06.200	NUTS RCPN9, N10, N11, N12, N13, N14, N15 & N16.	X

IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE	VOL.	SURF.	VIS.
REACTOR COOLANT PUMP 23 (CONT'D)					
B07.60	BOLTING PSB7, B8, B9, B10, B11 & B12.				X
PIPE WELDS					
B09.21	CIRCUMFERENTIAL WELDS LINE 62 WELD 11. LINE 79 WELDS 1AA, 4AA & 12. LINE 80 WELDS 2, 6AA & 10AA. LINE 96 WELD 5.		X		
B09.40	SOCKET WELDS LINE 64 WELDS 13AA, 14AA, 15AA, 16AA & 17AA.		X		
PIPE AND COMPONENT SUPPORTS					
BF1.10	QUALITY GROUP A SUPPORTS LINE 16 SUPPORT 16 H 23. LINE 43 SUPPORT SR 1025. LINE 56 SUPPORT 56 H 11. LINE 61 SUPPORT PWR 93.. LINE 62 SUPPORT RCH 73. LINE 63 SUPPORT PWR 122. LINE 64 SUPPORT 64 SR 23. LINR 79 SUPPORTS CH 120 & CH 123. LINE 80 SUPPORT SR 916. LINE 96 SUPPORTS CH 138 & CH 139. LINE 351 SUPPORT SIH 216.				(2)
QUALITY GROUP B					
STEAM GENERATOR 21					
C01.10	SHELL CIRCUMFERENTIAL WELDS SGC 21-3 & 4. (33%)	X			
C01.20	HEAD CIRCUMFERENTIAL WELD SGC 21-1. (33%)	X			
C02.21	NOZZLE-TO-SHELL SGN 21 2.	X	X		

IWB-2500 ! AREA AND EXTENT OF EXAMINATION		! EXAMINATION		
! REFERENCE!		! PROCEDURE		
		! VOL.	! SURF.	! VIS.
RESIDUAL HEAT REMOVAL HEAT EXCHANGER 22				
C01.10	SHELL CIRCUMFERENTIAL WELDS	(3)		
	RHXC 22-1 (33%)			
C01.20	HEAD CIRCUMFERENTIAL WELD	(3)		
	RXHC 22-2 (33%)			
C02.31	NOZZLE REINFORCING PLATE WELDS		(3)	
	RHXN 22-2A & 2B.			
INTEGRALLY WELDED PIPE ATTACHMENTS				
C03.20	LINE 1 WELD I.		X	
	LINE 5 WELD A.			
	LINE 9 WELDS C & O.			
PIPE WELDS				
C05.11	CIRCUMFERENTIAL PIPE WELDS	X	X	
	LINE 9 WELD 54.1.			
	LINE 16 WELD 143.			
	LINE 361 WELDS 24 & 25.			
C05.12	LONGITUDINAL PIPE WELDS	X	X	
	LINE 9 WELD 54.2.			
C05.30	SOCKET WELDS		X	
	LINE 56 WELD 106.			
C05.41	BRANCH WELD		X	
	LINE 56 WELD 88.			
C05.51	CIRCUMFERENTIAL PIPE WELDS	X	X	
	LINE 5 WELDS 1, 1.1 & 2.			
PIPE SUPPORTS				
CF1.20	PIPE SUPPORTS			(2)
	LINES 1 & 6 SUPPORT PR 4.			
	LINE 2 SUPPORT PR 5.			
	LINES 3 & 4 SUPPORT PR 2.			
	LINE 7 SUPPORTS FRAME Z & PR 2.			
	LINE 9 SUPPORTS ACH 69A & 70.			
	LINE 10 SUPPORT ACH 101.			
	LINE 16 SUPPORT 16 H 31.			
	LINE 361 SUPPORTS SIH 192 & 222			

NOTES

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1. VISUAL EXAMINATION PERFORMED AS A ALTERNATE TO VOLUMETRIC PER RELIEF REQUEST 9 AS APPROVED BY NRC ON JUNE 3, 1997.
 2. PIPE AND COMPONENT SUPPORTS EXAMINED TO ASME CODE CASE N-491.
 3. VOLUMETRIC AND SURFACE EXAMINATION PERFORMED WITHIN THE LIMITATION OF COMPONENT GEOMETRY. RELIEF REQUEST #16 AS APPROVED BY NRC ON JUNE 3, 1997 WILL BE AMMENDED AND RESUBMITTED FOR APPROVAL.

ATTACHMENT I

TABLE 2

SUMMARY OF REPORTED INDICATIONS

QUALITY GROUP A & B

IWB-2500 REFERENCE	AREA AND EXTENT OF EXAMINATION	EXAMINATION PROCEDURE VOL. SURF. VIS.
QUALITY GROUP A		
ISI INDICATIONS - PIPE SUPPORTS		
BF1.10	PIPE SUPPORT 56 H 11 DWG 206702 FIELD DOES NOT AGREE WITH DESIGN DRAWING; EVALUATED BY ENGINEERING FOR OPERABILITY AND ACCEPTED. CORRECTED TO DESIGN AND ACCEPTED BY REEXAMINATION.	X
BF1.10	PIPE SUPPORT PWR 93 DWG 206708 FIELD DOES NOT AGREE WITH DESIGN DRAWING; EVALUATED BY ENGINEERING AS UNACCEPTABLE. CORRECTED TO DESIGN AND ACCEPTED BY REEXAMINATION. PROGRAM EXPANDED AND ADDITIONAL EXAMINATIONS ACCEPTABLE.	X
BF1.10	PIPE SUPPORT CH 138 DWG 206723 LOOSE BOLTING 1 OF 3; EVALUATED BY ENGINEERING AND ACCEPTED FOR INTENDED FUNCTION. ACCEPTED FOLLOWING CORRECTION AND REEXAMINATION.	X
QUALITY GROUP B		
ISI INDICATIONS - PIPE SUPPORTS		
CF1.20	PIPE SUPPORT PR 5 DWG 206657 LOOSE BOLT 1 OF 4; ENGINEERING EVALUATED, SUPPORT WILL MEET INTENDED FUNCTION. CORRECTED, REEXAMINED AND ACCEPTED.	X
CF1.20	PIPE SUPPORT ACH 70 DWG 206667 SETTING; EVALUATED BY ENGINEERING, SUPPORT WILL MEET OPERABILITY CRITERIA. CORRECTED, REEXAMINED AND ACCEPTED.	X

! IWB-2500 !	! AREA AND EXTENT OF EXAMINATION !	! EXAMINATION !
! REFERENCE !	! !	! PROCEDURE !
! !	! !	! VOL. ! SURF. ! VIS. !
! ISI INDICATIONS - PIPE SUPPORTS CONT'D !		
! CF1.20 !	! PIPE SUPPORT ACH 101 DWG 206670 !	! ! ! X !
! !	! SETTING; ENGINEERING EVALUATED, !	! ! ! !
! !	! SUPPORT WILL MEET INTENDED FUNCTION. !	! ! ! !
! !	! CORRECTED, REEXAMINED AND ACCEPTED. !	! ! ! !

ATTACHMENT II

OWNER'S REPORT FOR INSERVICE INSPECTIONS
ASME SECTION XI FORM NIS-1

SECOND OUTAGE, FIRST PERIOD, THIRD INTERVAL

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT UNIT NO. 2
DOCKET 50-247
OCTOBER, 1997

FORM NIS-1 OWNER'S REPORT
FOR INSERVICE INSPECTIONS
AS REQUIRED BY THE PROVISIONS OF THE ASME RULES

1. OWNER: CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
4 IRVING PLACE, NEW YORK, NY 10003

2. PLANT: INDIAN POINT STATION
BROADWAY AND BLEAKLEY AVE.
BUCHANAN, NY 10511

3. PLANT UNIT: NO. 2

4. OWNER CERTIFICATE OF AUTHORIZATION: NA

5. COMMERCIAL SERVICE DATE: JULY 1, 1974

6. NATIONAL BOARD NUMBER: NA

7. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	MFG. - INST. SERIAL NO.	STATE OR PROVINCE NO.	NATIONAL BOARD NO.
REACTOR VESSEL	COMBUSTION ENGINEERING	65201	NONE	20756
PRESSURIZER	WESTINGHOUSE	33-460-1	NONE	6640
21 STEAM GENERATOR	WESTINGHOUSE	16A5780-1	NONE	732
22 RHR HEAT EXCHANGER	ATLAS	IPPACAHRS-2 1370-2, 806	NONE	659
23 REACTOR COOLANT PUMP	WESTINGHOUSE	RCPCPI-03	NONE	NONE
CLASS 1 AND 2 PIPING	UNITED ENG. AND CONSTRUCTORS	NONE	NONE	NONE

8. EXAMINATION DATES: 5-1-97 TO 7-1-97

9. INSPECTION PERIOD IDENTIFICATION: SECOND

10. INSPECTION INTERVAL IDENTIFICATION: THIRD

11. APPLICABLE EDITION OF SECTION XI: 1989 NO ADDENDA

12. DATE/REVISION OF INSPECTION PLAN: JANUARY 24, 1994 REV. 0

13. ABSTRACT OF EXAMINATIONS: SEE ATTACHMENT I, SUMMARY AND TABLE 1.
14. ABSTRACT OF RESULTS OF EXAMINATIONS: SEE ATTACHMENT I TABLE 2.
15. ABSTRACT OF CORRECTIVE MEASURES: SEE ATTACHMENT I SUMMARY.

WE CERTIFY THAT A) THE STATEMENTS MADE IN THIS REPORT ARE CORRECT, B) THE EXAMINATIONS MEET THE INSPECTION PLAN AS REQUIRED BY THE ASME CODE, SECTION XI, AND C) CORRECT MEASURES TAKEN TO CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

CERTIFICATE OF AUTHORIZATION NO.: NONE

EXP. DATE: NA

DATE: 9/24, 1997

SIGNED: CONSOLIDATED EDISON OF NEW YORK

BY:

P.E. Deady

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS BY THE STATE OR PROVINCE OF NEW YORK AND EMPLOYED BY H.S.B. I & I Co. OF HARTFORD, CT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNER'S REPORT DURING THE PERIOD 5-5-97 TO 9-24-97 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED THE EXAMINATIONS AND TESTS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNER'S REPORT IN ACCORDANCE WITH THE INSPECTION PLAN AS REQUIRED BY ASME CODE, SECTION XI.

BY SIGNING THIS CERTIFICATE NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EXAMINATIONS, TESTS, AND CORRECTIVE MEASURES DESCRIBED IN THIS OWNER'S REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

[Signature]
INSPECTOR'S SIGNATURE

COMMISSIONS NB 10011 I.N. NYS 3084
NATIONAL BOARD, STATE, PROVINCE
AND ENDORSEMENTS

DATE 9-24-97, 1997