

POWER AUTHORITY OF THE STATE OF NEW YORK

INDIAN POINT UNIT 3 NUCLEAR POWER PLANT

Report on:

Second Refueling Outage Inservice Inspection

of

Pressurizer Weld L-1

Report: AVS-104-79


Inservice Inspection Engineer

Dated: November 21, 1979

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INDIAN POINT UNIT 3 NUCLEAR POWER PLANT - PRESSURIZER WELD L-1

Report on Ultrasonic Examination of Pressurizer Weld L-1

History

During the first refueling outage Inservice Inspection, ultrasonic examination of Weld L-1 on the IP-3 pressurizer revealed a laminar indication of approximately 4 to 4.5 inches long by .5 to .8 inches wide. The first refueling outage Inservice Inspection was done in accordance with the 1970 edition of Section XI. Since the 1974 edition of Section XI, summer 1975 addenda contains acceptance parameters for such indications (Table IWB 3510.2) the Power Authority requested that acceptance be based on IWB 3510.2. The request was granted (Amendment No. 16 to the IP3 Technical Specifications) with the provision that the Weld L-1 be reexamined to the 1974 Code s75 addenda during that first outage and again during the present second refueling inservice inspection. In addition, NRC required that a report be submitted on the results of the second refueling inservice inspection of Weld L-1. This is the report of our results.

Second Refueling Outage Inspection of Weld L-1

The Westinghouse Nuclear Services Division conducted the second refueling outage Inservice Inspection of Weld L-1 in accordance with the 1974 edition, summer 1975 addenda of the ASME Boiler and Pressure Vessel Code, Section XI.

The examining personnel were qualified in accordance with the appropriate levels of ASNT-TC-1A. Examination equipment and transducers were certified and traceable to required standards. Examination procedures were reviewed and approved by the Power Authority's Level III, The Hartford Steam Boiler Inspection and Insurance Company, and the site NRC ISI representative. Certifications, personnel qualification, and procedures are included in the Second Refueling Outage Inservice Inspection Final Report to be submitted to the NRC during December.

Examination of Weld L-1

Weld L-1 was ultrasonically tested in accordance with the ASME Code Section XI, 1974 edition summer 1975 addenda required by Amendment 16 to the Plant Technical Specification Examination took place on 10-7-79 and 10-19-79. The first examination utilized calibrations using the pressurizer test block required by the 1974 Code. The second examination again was in accordance with the 1974 Code, but utilized the calibration block used during the first refueling outage. This was done to ensure repeatable results within required inspection limits. The U.T. data sheets are attached for NRC information.

Results of Examination

Results show no significant change to the indication in Weld L-1 during the last year of operation. Monitoring this indication using 0°, 45°, and 60° contact angles show that it has remained static during operation. Further, it is still within the same code acceptable requirements of IWB 3510.2. Thus, no discrepancy report was needed during the second refueling outage.

Summary & Conclusion

The monitoring of Weld L-1 during the second refueling outage Inservice Inspection was done in accordance with Amendment 16 of the Plant Technical Specification. Results show no change in the indication. It is, therefore, concluded that the indication is still acceptable and will not affect safe or successful operation of the plant.

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES
ULTRASONIC INDICATION DATA SHEET

Indian Point

UNIT: 3

DATE: 10-19-79

N/A

SYSTEM OR COMPONENT:
Pressurizer

SKETCH NO.
INT-59

INSPECTOR(SI) Jackie F. Flanagan/II

STD THICK. IPP-3-10 5.0" T

PROCEDURE NO:
ISI-5 R.13

| INDICATION NUMBER | INDICATION LENGTH | | MIN. DEPTH | S.U. POS. | MAX. DEPTH | S.U. POS. | MAX. % DAC | BEAM ANGLE | BEAM DIR. | BASE METAL THICK. | WELD THICK. | BASE METAL THICK. | REMARKS |
|---|-------------------|-----|------------|-----------|------------|-----------|------------|------------|-----------|-------------------|-------------|-------------------|--|
| | FROM | TO | | | | | | | | | | | |
| -1 | 7 3/4" | 12" | 3.47 | 7/16" | 3.66 | 7/8" | 316% | 0° | 0 | 4.75" | 4.75" | 4.75" | DATA RECORDED FROM PASNY 0° point. FROM S SCAN (0° point IS 0° STAMP) |
| -1 | 54.75" | 59" | 3.47 | 7/16" | 3.66 | 7/8" | 316% | 0° | 0 | 4.75" | 4.75" | 4.75" | DATA RECORDED FROM (W) DATUM POINT. FROM S SCAN (DATUM POINT ADJACENT WEID C-1) |
| RE-EXAMINATION OF INDICATION WITH BASE LINE cal. block. | | | | | | | | | | | | | |

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES
ULTRASONIC INDICATION DATA SHEET

PLANT: Indian Point UNIT: 3 DATE: 10-19-79
 LOOP: N/A SYSTEM OR COMPONENT: Pressurizer SKETCH NO. INT-59
 OPERATOR(S): Jackie K. Flanagan / II STD THICK. INT-38 4.75" T PROCEDURE NO. ISI-47 R.2 A.6

| INDICATION NUMBER | INDICATION LENGTH | | MIN. DEPTH | S.U. POS. | MAX. DEPTH | S.U. POS. | MAX. % DAC | BEAM ANGLE | BEAM DIR. | BASE METAL THICK. | WELD THICK. | BASE METAL THICK. | REMARKS |
|--|-------------------|---------|------------|-----------|------------|-----------|------------|------------|-----------|-------------------|-------------|-------------------|--|
| | FROM | TO | | | | | | | | | | | |
| L-1 | 7 3/4" | 11 5/8" | 3.53 | 5/8" | 3.65 | 1" | 400% | 0° | 0 | 4.75" | 4.75" | 4.75" | DATA RECORDED FROM PASM 0° point. S SCAN (0° point is O stamp) |
| L-1 | 54.87 | 59.38 | 3.53 | 5/8" | 3.65" | 1" | 400% | 0° | 0 | 4.75" | 4.75" | 4.75" | DATA RECORDED FROM (W) DATUM POINT. S SCAN (DATUM POINT ADJACENT WEID C-1) |
| L-3 | 20.25" | 21.00" | 3.42 | 7/8" | 3.53 | 1" | 316% | 0° | 0 | 4.75" | 4.75" | 4.75" | DATA RECORDED FROM (W) DATUM POINT ADJACENT WEID C-3. (BASE METAL INDICATION) |
| NOTE: FOR WEID L-3 bottom of insulation window is 16.5" FROM ADJACENT WEID C-3. USING 16.5" AS O point indication is 3.75" to 4.5" from bottom OF insulation window. | | | | | | | | | | | | | |

Jackie Flanagan PER