

ATTACHMENT A

REFUELING OUTAGE

INSERVICE INSPECTION SUMMARY

REACTOR VESSEL, CLASS 1 AND 2 COMPONENTS

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

INDIAN POINT UNIT NO. 2

DOCKET NO. 50-247

8608260271 860821  
PDR ADOCK 05000247  
G PDR

ATTACHMENT A

INDIAN POINT UNIT NO. 2

REFUELING OUTAGE

INSERVICE INSPECTION

EXAMINATION SUMMARY

REACTOR HEAD, CLASS 1 AND 2 COMPONENTS AND PIPING

Inservice examinations of the Reactor Head and Class 1 and 2 components and piping systems were conducted at the Indian Point Unit 2 Nuclear Power Plant during the Seventh Refueling Outage. These examinations were performed in the first outage of the first period, second interval.

The program utilized visual, surface and volumetric nondestructive testing methods in accordance with the requirements of:

- A. ASME B&PV Code Section XI, 1980 Edition, including addenda through Winter 81
- B. Plant Technical Specification, Section 4.2
- C. Con Edison Inservice Inspection and Testing Program, submitted by Con Edison letter J. O'Toole to S. Varga on September 30, 1985

The areas examined are recorded in Table 1 and the recorded indications are summarized in this Attachment.

Examinations resulted in the following recordable indications being noted on the basis of procedure recording criteria, which generally are more conservative than specified ASME Boiler and Pressure Vessel Code 1980 Edition of Section XI up to and including Winter 1981 Addenda Acceptance Standards.

1. Two (2) indications were noted by ultrasonic examinations, one in the Reactor Vessel Head and one on the Steam Generator 21 Tube Sheet to Channel Head Weld. They were evaluated as acceptable per ASME Boiler and Pressure Vessel Code 1980 Edition of Section XI up to and including Winter 1981 Addenda Tables IWB-3510-2 and IWB-3511-1.
2. Six (6) indications were reported as a result of surface examinations. These indications were associated with:
  - A. Steam Generator 21 Head Casting
  - B. CVCS Charging Line 96 Butt weld
  - C. Main Steam Integrally Welded Support H-19
  - D. Safety Injection Suction Line 293 from Recirculation Pump (2 indications)
  - E. Main Steam Line 3 Integrally Welded Support H-6

The indications were evaluated by Consolidated Edison Engineering Department and either accepted or repaired, then re-examined to determine acceptability.

3. Visual conditions were reported on the following:
  - A. Ten (10) Reactor Vessel Closure Head Washers
  - B. Twenty-four (24) Reactor Coolant Pump Main Flange Studs
  - C. Eighteen (18) Reactor Coolant Pump No. 1 Seal Housing Bolts
  - D. Fifteen (15) Component or Piping Supports
  - E. One (1) Piping Flange

Typically these conditions consisted of presence of boric acid crystals, surface corrosion, deformed threads, loose parts, etc.

These indications were evaluated by Consolidated Edison Engineering Department and either accepted or repaired, then re-examined to determine acceptability.

TABLE #1  
-----  
AREAS EXAMINED  
-----

All items listed below were examined as indicated, to the requirements of The Con Edison Inservice Inspection and Testing Program.

| IWB-2500<br>REFERENCE | AREA AND EXTENT OF EXAMINATION  | EXAMINATION |      |      | NOTES |
|-----------------------|---|-------------|------|------|-------|
|                       |   | VOL.        | SUR. | VIS. |       |
|                       |   | -----       |      |      |       |
| REACTOR VESSEL        |   |             |      |      |       |
| -----                 |   |             |      |      |       |
| B1.22                 | Closure Head Meriodional Welds 3&4<br>Examination 'Area - 0" to 33"   | X           | -    | -    |       |
| B1.40                 | Closure Head to Flange Weld 1 -<br>Examination area from centerline<br>of stud hole 17 clockwise to center-<br>line of stud hole 36 | X           | X    | -    |       |
| B6.10                 | Closure Head Nuts 1 thru 14   | -           | X    | -    |       |
| B6.30                 | Closure Head Studs 1 thru 14  | X           | X    | -    |       |
| B6.50                 | Closure Head Washers 1 thru 14  | -           | -    | X    |       |
| B7.10                 | Conoseal Bolting Assemblies 72 & 91   | -           | -    | X    |       |
| B8.10                 | Integrally Welded Attachment -<br>lug - ISW M3  | -           | X    | -    |       |

IWB-2500  
REFERENCE

AREA AND EXTENT OF EXAMINATION

EXAMINATION NOTES  
VOL. SUR. VIS.

STEAM GENERATOR 21

|       |   |   |   |   |  |
|-------|---|---|---|---|--|
| B2.40 | Channel Head to Tubesheet Weld 21-1<br>Examination area 195" CW to 33"<br>from centerline of hotleg manway. | X | - | - |  |
| B2.40 | Channel Head to Tubesheet Weld 21-1<br>(Inclusion Area) - Examination<br>area 368" CW to 379".              | X | - | - |  |
| B5.70 | Nozzle to Safe End Welds 4(DM) &<br>5(DM)   | X | X | - |  |

STEAM GENERATORS 21, 22, 23 & 24

|       |  |   |   |   |     |
|-------|--|---|---|---|-----|
| B7.30 | Manway Studs, Nuts and Washers -<br>21-B1 thru 21-B32, 22-B1 thru 22-B32<br>23-B1 thru 23-B32 and 24-B1 thru<br>24-B32 | - | - | X | (2) |
|-------|--|---|---|---|-----|

PIPING

|       |  |   |   |   |     |
|-------|--|---|---|---|-----|
| B7.50 | 2" AND 1-1/2" Seal Injection Line 41<br>Flange 1-4 Studs & 8 Nuts    | - | - | X |     |
| B7.50 | 2" AND 1-1/2" Seal injection Line 41<br>Flange 2-8 Studs & 16 Nuts   | - | - | X |     |
| B9.11 | Loop 21 Reactor Coolant Pipe - 8 & 9                                 | X | X | - |     |
| B9.11 | 10" Accumulator Discharge Line 351<br>- 2 & 3                        | X | X | - |     |
| B9.12 | Loop 21 Reactor Cooland Pipe - 15,<br>16, 17 & 18 - 12" of each weld | - | X | - | (1) |
| B9.21 | 3" Charging Line 96 - 2, 3 & 4                                       | - | X | - |     |
| B9.21 | 2" Drain Line 81 - 1(BW)   | - | X | - |     |

IWB-2500  
 REFERENCE

AREA AND EXTENT OF EXAMINATION

EXAMINATION  
 VOL. SUR. VIS.

NOTES

BRANCH PIPE CONNECTIONS

| REFERENCE | AREA AND EXTENT OF EXAMINATION | VOL. | SUR. | VIS. | NOTES |
|-----------|--------------------------------|------|------|------|-------|
| B9.32     | 3" Charging Line 96 - 1(BC)    | -    | X    | -    |       |

SOCKET WELDS

|       |  |   |   |   |  |
|-------|--|---|---|---|--|
| B9.40 | 2" SIS Line 56 - 8                             | - | X | - |  |
| B9.40 | 2" SIS Line 16 - 8, 9, 10, 11, 12, 13, 14 & 43 | - | X | - |  |
| B9.40 | 2" Drain Line 81 - 2, 3, 4, 6, 7 & 8           | - | X | - |  |
| B9.40 | 2" SIS Line 56 - 22, 23, 24, 25, 26, 27 & 28   | - | X | - |  |

VALVES

|        |                                |   |   |   |  |
|--------|--------------------------------|---|---|---|--|
| B7.70  | 6" - 838A - 12 Studs & 12 Nuts | - | - | X |  |
| B12.50 | 6" - 838A - Interior Surface   | - | - | X |  |
| B7.70  | 3" - 204B - 6 Studs & 6 Nuts   | - | - | X |  |
| B7.70  | 3" - 210B - 12 Studs & 12 Nuts | - | - | X |  |

| IWB-2500<br>REFERENCE | AREA AND EXTENT OF EXAMINATION | EXAMINATION |      |      | NOTES |
|-----------------------|--------------------------------|-------------|------|------|-------|
|                       |                                | VOL.        | SUR. | VIS. |       |

REACTOR COOLANT PUMP 21

|        |   |   |   |   |  |
|--------|---|---|---|---|--|
| B6.180 | Main Flange Studs 21-B1 thru 21-B24                     | X | - | - |  |
| B6.200 | Nuts for Main Flange Studs 21-B1 thru 21-B24            | - | - | X |  |
| B7.60  | No. 1 Seal Housing Bolts 21-B1 thru 21-B18              | - | - | X |  |
| B10.20 | Integrally Welded Attachments 21-1SC, 21-2SC and 21-3SC | - | X | - |  |

REACTOR COOLANT PUMP 23

|       |  |   |   |   |  |
|-------|--|---|---|---|--|
| -     | Flywheel - Pump 23                         | X | - | - |  |
| B7.60 | No. 1 Seal Housing Bolts 23-B1 thru 23-B18 | - | - | X |  |

| IWC-2500<br>REFERENCE | AREA AND EXTENT OF EXAMINATION | EXAMINATION |      |      | NOTES |
|-----------------------|--------------------------------|-------------|------|------|-------|
|                       |                                | VOL.        | SUR. | VIS. |       |

STEAM GENERATOR 21

|       |  |   |   |   |  |
|-------|--|---|---|---|--|
| C1.10 | Circumferential Weld 21-2 - Examination area 195" CW to 321" | X | - | - |  |
| C1.10 | Circumferential Weld 21-3 - Examination area 195" CW to 321" | X | - | - |  |

PIPING INTEGRALLY WELDED ATTACHMENTS

|       |                                      |   |   |   |  |
|-------|--------------------------------------|---|---|---|--|
| C3.20 | 28" Mainsteam Line 3-H2, H4, H5 & H6 | - | X | - |  |
| C3.20 | 18" Feedwater Lin3 7-H17, H18, & H19 | - | X | - |  |
| C3.20 | 14" RHR Line 57 - H3                 | - | X | - |  |
| C3.20 | 14" RHR Line 10 - H7                 | - | X | - |  |

| IWC-2500<br>REFERENCE        | AREA AND EXTENT OF EXAMINATION              | EXAMINATION |      |      | NOTES |
|------------------------------|---|-------------|------|------|-------|
|                              |   | VOL.        | SUR. | VIS. |       |
| PIPING CIRCUMFERENTIAL WELDS |   |             |      |      |       |
| C5.11                        | 14" RHR Line 10-10                          | -           | X    | -    |       |
| C5.11                        | 14" RHR Line 57 - 5 & 6                     | -           | X    | -    |       |
| C5.11                        | 12" RHR Line 155-29 & 30                    | -           | X    | -    |       |
| C5.11                        | 10" RHR Line 10-37                          | -           | X    | -    |       |
| C5.11                        | 12" Auxiliary Coolant Line 9-18, 19<br>& 20 | -           | X    | -    |       |
| C5.11                        | 8" Auxiliary Coolant Line 9-35              | -           | X    | -    |       |
| C5.11                        | 12" Auxiliary Coolant Line 9-6 & 7          | -           | X    | -    |       |
| C5.11                        | 8" SIS Line 361-19 & 20                     | -           | X    | -    |       |
| C5.11                        | 8" SIS Line 60-10 & 11                      | -           | X    | -    |       |
| C5.11                        | 8" Auxiliary Coolant Line 9-8,9,10          | -           | X    | -    |       |
| C5.11                        | 10" SIS Line 293-7 & 8                      | -           | X    | -    |       |
| C5.21                        | 28" Mainsteam Line 3-4, 5 & 6               | X           | X    | -    |       |
| C5.21                        | 18" Feedwater Line 7-13                     | X           | X    | -    |       |
| C5.21                        | 10" Line 361-6 & 7                          | X           | X    | -    |       |
| C5.11                        | 8" SIS Line 190-1 & 2                       | -           | X    | -    |       |
| BRANCH CONNECTIONS           |   |             |      |      |       |
| C5.31                        | 18" Feedwater Line 7-14(BC)                 | -           | X    | -    |       |

IWF-2500  
 REFERENCE

AREA AND EXTENT OF EXAMINATION

EXAMINATION  
 VOL. SUR. VIS.

NOTES

SUPPORTS AND HANGERS

| REFERENCE | AREA AND EXTENT OF EXAMINATION                                      | VOL. | SUR. | VIS. | NOTES |
|-----------|---|------|------|------|-------|
| F-2       | Steam Generator 21  | -    | -    | X    |       |
| F-2       | Loop 21 Reactor Coolant Pipe H1, H2 and H4                          | -    | -    | X    |       |
| F-3       | 10" Accumulator Discharge Line 351-H1, H2, H3 & H4                  | -    | -    | X    |       |
| F-2, F-3  | 2" SIS Line 16-H2, H3, H4, H5 & H6                                  | -    | -    | X    |       |
| F-3       | 2" & 1-1/2" Seal Inspection Line 41-H1, H2, H3, H4, H5, H6, H7 & H8 | -    | -    | X    |       |
| F-2, F-3  | 14" RHR - H12, H13, H14, H15 & H16                                  | -    | -    | X    |       |
| F-2, F-3  | 14" RHR Line 10-H7  | -    | -    | X    |       |
| F-2, F-3  | 14" RHR Line 57-H3  | -    | -    | X    |       |
| F-2, F-3  | 10" SIS Line 293 - H1, H2 & H4                                      | -    | -    | X    |       |
| F-2, F-3  | 3" Charging Line 96-H1  | -    | -    | X    |       |
| F-2, F-3  | 8" SIS Line 361-H6 & H8   | -    | -    | X    |       |
| F-2, F-3  | 8" Auxiliary Coolant Line 9-H14 & H16                               | -    | -    | X    |       |
| F-2, F-3  | 28" Mainsteam Line 3-H2, H3, H4, H5 & H6                            | -    | -    | X    |       |
| F-2, F-3  | 18" & 10" Feedwater Line 7-H17, H18 & H19                           | -    | -    | X    |       |

NOTES

- (1) Ultrasonic examination cannot be performed due to material structure of two austenetic stainless steel castings welded together by the electroslag process. Surface examination performed only.
- (2) Baseline data for Steam Generators 21, 22, 23 and 24 Manway Replacement Studs, Nuts and Washers

#1JLS/es  
 8/18/86  
 ISI90

ATTACHMENT B

REFUELING OUTAGE INSERVICE INSPECTION TEST SUMMARY

REACTOR VESSEL, CLASS 1 AND 2 COMPONENTS

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

Indian Point Unit No. 2

Docket No. 50-247

ATTACHMENT B

Indian Point Unit No. 2  
Refueling Outage  
Inservice Inspection  
Hydrostatic and System Pressure Test Summary  
Quality Group A, Quality Group B and Quality Group C  
Pressure Retaining Components

An inservice hydrostatic or system pressure test of Quality Group A, B, C systems and components was conducted at the Indian Point Unit 2 Nuclear Power Plant during the Seventh Refueling Outage. This testing begins the second 10 Year Inspection Interval.

The program utilized visual testing methods in accordance with the requirements of:

- a) ASME Section XI 1980 with addenda through Winter 1981.
- b) Plant Technical Specifications.
- c) Con Edison Inservice Inspection and Testing Program Supplement
- d) Relief Requests submitted to the NRC.

The areas tested are listed in Table 3 and test results are summarized in Table 4 of this attachment.

The test of the Quality Group A pressure retaining components identified 14 indications.

- o 4 indications involving leakage at valve body to bonnet, valve packing and flanges were repaired and accepted upon retest.
- o 9 indications involving leakage at a mechanical joint were repaired and accepted upon retest.
- o 1 indication involving a mechanical joint leak was evaluated as minor and is deferred until the Cycle 8 refueling outage.

The examination of the Quality Group B pressure retaining components identified 22 indications.

- o 10 indications involving leakage at valve packing were evaluated and determined to be acceptable.
- o 10 indications involving leakage at valve packings, mechanical seals and body to bonnet leak were repaired and accepted upon retest.
- o 2 indications involving leakage at valve packing and a flange were evaluated as minor and deferred until the Cycle 8 refueling outage.

The examinations of the Quality Group C pressure retaining components did not identify any indications.

TABLE 3

AREAS TESTED

All items listed on the attached Inservice Pressure Test Master Data Sheets were examined, as indicated, in accordance with the requirements of the Con Edison Inservice Inspection and Testing Program, with the requirements of Section XI 1980 Edition of the ASME Boiler and Pressure Vessel Code up to and including Winter 1981 Addenda, Plant Technical Specifications and relief requests submitted to the NRC.

INSERVICE PRESSURE TEST

R12

| PROC<br>R12 | LINE | QA IW<br>GR | DRAWING<br>P&ID | ISOMETRIC<br>NIMRFR | FROM     | TO                   | COMPONENT | MPP<br>PSIG | MAP<br>PSIG | RV<br>SET | TEMP<br>MIN | TEST MEDIA | TEST PT |
|-------------|------|-------------|-----------------|---------------------|----------|----------------------|-----------|-------------|-------------|-----------|-------------|------------|---------|
| N/A         | B    | IWC         | A206744         | GDM 1604            | N/A      | N/A                  | RHR Hx 22 | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
| N/A         | B    | IWC         | A206744         | GDM 1604            | N/A      | N/A                  | RHR Hx 21 | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
| TEST        | B    | IWC         | A206744         | GDM 1604            | LINE 60  | LINE 10              | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 9    | B           | IWC             | A206744             | GDM 1604 | RHR PUMPS 21,22      | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 10   | B           | IWC             | A206744             | GDM 1604 | VALVE 731            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 10   | B           | IWC             | A206744             | GDM 1604 | VC WALL              | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 29   | B           | IWC             | A206744             | GDM 1604 | RHR PUMPS 21,22      | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 57   | B           | IWC             | A206744             | GDM 1604 | LINE 361             | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 60   | B           | IWC             | A206744             | GDM 1604 | VALVE 885B           | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 60   | B           | IWC             | A206744             | GDM 1604 | LINE 361             | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 60   | B           | IWC             | A206744             | GDM 1604 | VC WALL              | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 93   | B           | IWC             | A206744             | GDM 1604 | VALVES 888A & 888B   | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 94   | B           | IWC             | A206744             | GDM 1604 | LINE 361             | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 155  | B           | IWC             | A206744             | GDM 1604 | VALVE 892            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 190  | B           | IWC             | A206744             | GDM 1604 | LINE 10              | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 293  | B           | IWC             | A206744             | GDM 1604 | VALVE 883            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 294  | B           | IWC             | A206744             | GDM 1604 | LINE 9               | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 361  | B           | IWC             | A206744             | GDM 1604 | VALVES 1802A & 1802B | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 361  | B           | IWC             | A206744             | GDM 1604 | TEST LINE            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 361  | R           | IWC             | A206744             | GDM 1604 | RHR Hx 21            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 361  | R           | IWC             | A206744             | GDM 1604 | RHR Hx 22            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 361  | R           | IWC             | A206744             | GDM 1604 | VALVE 747            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |
|             | 361  | R           | IWC             | A206744             | GDM 1604 | VALVE 746            | NONE      | ISP         | ISP         | ISP       | N/A         | PRIM WATER | N/A     |

INSERVICE PRESSURE TEST

| PROC   | LINE | QA IW GR | DRAWING P&ID | ISOMETRIC NUMBER | FROM                   | TO                   | COMPONENT  | MPP PSIG | MAP PSIG | RV SET PSIG | TEMP TEST MIN | TEST MEDIA | TEST PT. |
|--------|------|----------|--------------|------------------|------------------------|----------------------|------------|----------|----------|-------------|---------------|------------|----------|
| PT-XB  |      |          |              |                  |                        |                      |            |          |          |             |               |            |          |
| N/A    | C    | IWD      | A206735      | N/A              | N/A                    | N/A                  | COND ST TK | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1505   | C    | IWD      | A206735      | N/A              | N/A                    | VALVE CT-6           | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1509   | C    | IWD      | A206735      | N/A              | N/A                    | VALVE CD-100         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1513   | C    | IWD      | A206735      | N/A              | N/A                    | VALVES CT-14 & CT-58 | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1525   | C    | IWD      | A206735      | N/A              | LINE 1509              | VALVE RFD-51         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1528   | C    | IWD      | A206735      | N/A              | LINE 1525              | VALVE BFD-53         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1527   | C    | IWD      | A206735      | N/A              | LINE 1525              | VALVE BFD-72         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1528   | C    | IWD      | A206735      | N/A              | LINE 1525              | VALVE BFD-55         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1529   | C    | IWD      | A206735      | N/A              | LINE 1530              | VALVE BFD-78         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1530   | C    | IWD      | A206735      | N/A              | LINE 1509              | VALVE BFD-77         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| 1532   | C    | IWD      | A206735      | N/A              | LINE 1509              | VALVE BFD-69         | NONE       | STAT     | STAT     | STAT        | 50            | COND WATER | N/A      |
| PT-X20 |      |          |              |                  |                        |                      |            |          |          |             |               |            |          |
| N/A    | C    | IWD      | A206739      | GDM 1625         | N/A                    | N/A                  | CHEM TANK  | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| N/A    | C    | IWD      | A206739      | GDM 1625         | N/A                    | N/A                  | IA COMP 22 | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| N/A    | C    | IWD      | A206739      | GDM 1625         | N/A                    | N/A                  | IA COMP 21 | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| N/A    | C    | IWD      | A206739      | GDM 1625         | N/A                    | N/A                  | IACCMHX22  | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| N/A    | C    | IWD      | A206739      | GDM 1625         | N/A                    | N/A                  | IACCMHX21  | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1544   | C    | IWD      | A206739      | GDM 1625         | VALVE CC-40            | LINE 1545            | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1545   | C    | IWD      | A206739      | GDM 1625         | VALVE CC-40-1          | IACCMHX22            | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1548   | C    | IWD      | A206739      | GDM 1625         | LINE 1545              | IACCMHX21            | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1547   | C    | IWD      | A206739      | GDM 1625         | LINE 1545              | CHEM TANK            | NONE       | 83       | 87       | 88          | 50            | CITY WATER | CC-50-1  |
| 1551   | C    | IWD      | A206739      | GDM 1625         | LINE 1552              | AFT CLR IACCM 21, 22 | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1552   | C    | IWD      | A206739      | GDM 1625         | IACCMHX21, 22          | LINE 1551            | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1554   | C    | IWD      | A206739      | GDM 1625         | LINE 1551              | VALVE CC-52-1        | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1555   | C    | IWD      | A206739      | GDM 1625         | AFT COOLER 21          | VALVE CC-44          | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1556   | C    | IWD      | A206739      | GDM 1625         | AFT COOLER 22          | VALVE CC-44-1        | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1557   | C    | IWD      | A206739      | GDM 1625         | LINE 1555              | IA COMP 21           | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1558   | C    | IWD      | A206739      | GDM 1625         | LINE 1556              | IA COMP 22           | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1559   | C    | IWD      | A206739      | GDM 1625         | VALVE CC-60            | IA COMP 21           | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1560   | C    | IWD      | A206739      | GDM 1625         | IA COMP 22             | VALVE CC-60-1        | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1561   | C    | IWD      | A206739      | GDM 1625         | VALVE CC-45            | IA COMP 21           | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1562   | C    | IWD      | A206739      | GDM 1625         | IA COMP 22             | VALVE CC-45-1        | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1563   | C    | IWD      | A206739      | GDM 1625         | CHEM TANK              | VALVE CC-51          | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1565   | C    | IWD      | A206739      | GDM 1625         | LINE 1551              | VALVE CC-56          | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| 1566   | C    | IWD      | A206739      | GDM 1625         | LINE 1551              | VALVE CC-56-1        | NONE       | 83       | 87       | 88          | 50            | CITY WATER | N/A      |
| PT-X21 |      |          |              |                  |                        |                      |            |          |          |             |               |            |          |
| 1548   | C    | IWD      | A206739      | GDM 1625         | LINES 1556, 1555, 1554 | EXP TANK             | EXP TANK   | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1549   | C    | IWD      | A206739      | GDM 1625         | LINE 1548              | CC-47                | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1550   | C    | IWD      | A206739      | GDM 1625         | LINE 1548              | CC-47-1              | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1554   | C    | IWD      | A206739      | GDM 1625         | LINE 1548              | CC-52-1              | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1555   | C    | IWD      | A206739      | GDM 1625         | LINE 1548              | CC-44                | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1556   | C    | IWD      | A206739      | GDM 1625         | LINE 1548              | CC-44-1              | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1561   | C    | IWD      | A206739      | GDM 1625         | LINE 1555              | CC-45                | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1562   | C    | IWD      | A206739      | GDM 1625         | LINE 1556              | CC-45-1              | NONE       | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| 1563   | C    | IWD      | A206739      | GDM 1625         | EXP TANK               | CC-51                | EXP TANK   | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |
| N/A    | C    | IWD      | A206739      | GDM 1625         | N/A                    | N/A                  | EXP TANK   | STAT     | STAT     | STAT        | 50            | CITY WATER | N/A      |

INSERVICE PRESSURE TEST

R-74

| PROC<br>R-74 | LINE | QA IW<br>GR | DRAWING<br>P&ID | ISOMETRIC<br>NUMBER | FROM      | TO        | COMPONENT | MPP<br>PSIG | HAP<br>PSIG | RV<br>SET<br>PSIG | TEMP<br>MIN | TEST<br>MEDIA | TEST<br>PT |
|--------------|------|-------------|-----------------|---------------------|-----------|-----------|-----------|-------------|-------------|-------------------|-------------|---------------|------------|
| N/A          | B    | IWC         | A206734         | N/A                 | N/A       | N/A       | S/G 20    | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| N/A          | B    | IWC         | A206734         | N/A                 | N/A       | N/A       | S/G 21    | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| N/A          | B    | IWC         | A206734         | N/A                 | N/A       | N/A       | S/G 22    | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| N/A          | B    | IWC         | A206734         | N/A                 | N/A       | N/A       | S/G 24    | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 1            | B    | IWC         | A206734         | N/A                 | VC WALL   | MS-2B     | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 2            | B    | IWC         | A206734         | N/A                 | VC WALL   | MS-2A     | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 3            | B    | IWC         | A206734         | N/A                 | VC WALL   | MS-2C     | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 4            | B    | IWC         | A206734         | N/A                 | VC WALL   | MS-2D     | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 5            | B    | IWC         | A206736         | N/A                 | S/G 22    | VC WALL   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 5            | B    | IWC         | A206736         | N/A                 | VC WALL   | BFD-6-1   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 6            | B    | IWC         | A206736         | N/A                 | S/G 21    | VC WALL   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 6            | B    | IWC         | A206736         | N/A                 | VC WALL   | BFD-6     | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 7            | B    | IWC         | A206736         | N/A                 | S/G 23    | VC WALL   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 7            | B    | IWC         | A206736         | N/A                 | VC WALL   | BFD-6-2   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 8            | B    | IWC         | A206736         | N/A                 | S/G 24    | VC WALL   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 8            | B    | IWC         | A206736         | N/A                 | VC WALL   | BFD-6-3   | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 45           | B    | IWC         | A206734         | N/A                 | VC WALL   | PCV 1218A | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 45           | B    | IWC         | A206734         | N/A                 | VC WALL   | S/G 22    | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 46           | B    | IWC         | A206734         | N/A                 | VC WALL   | S/G 21    | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 46           | B    | IWC         | A206734         | N/A                 | VC WALL   | PCV 1214A | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 47           | B    | IWC         | A206734         | N/A                 | VC WALL   | S/G 23    | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 47           | B    | IWC         | A206734         | N/A                 | VC WALL   | PCV 1216A | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 48           | B    | IWC         | A206734         | N/A                 | VC WALL   | PCV 1217A | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 48           | B    | IWC         | A206734         | N/A                 | VC WALL   | S/G 24    | NONE      | 775         | 1005        | MSRV              | 100         | FW/WATER/STM  | N/A        |
| 1514         | B    | IWC         | A206736         | N/A                 | LINE 1518 | BFD-36    | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1515         | B    | IWC         | A206736         | N/A                 | LINE 1519 | BFD-38    | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1516         | B    | IWC         | A206736         | N/A                 | BFD-48-5  | LINE 7    | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1517         | B    | IWC         | A206736         | N/A                 | LINE 8    | BFD-48-7  | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1518         | B    | IWC         | A206736         | N/A                 | LINE 6    | BFD-48-3  | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1519         | B    | IWC         | A206736         | N/A                 | BFD-48-1  | LINE 6    | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1520         | B    | IWC         | A206736         | N/A                 | BFD-41    | LINE 1516 | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |
| 1521         | B    | IWC         | A206736         | N/A                 | LINE 1517 | BFD-43    | NONE      | 775         | 1005        | MSRV              | 50          | FW/WATER/STM  | N/A        |

INSERVICE PRESSURE TEST

| PROC LINE | QA IW | DRAWING | ISOMETRIC | FROM                 | TO            | COMPONENT | MPP  | MAP  | RV    | TEMP | TEST MEDIA | TEST PT |
|-----------|-------|---------|-----------|----------------------|---------------|-----------|------|------|-------|------|------------|---------|
| R75       | GR    | P&ID    | NUMBER    |                      |               |           | PSIG | PSIG | SET   | MIN  |            |         |
| 70 A      | IWB   | A206747 | N/A       | PCV 456 AND PCV 455C | PRESSURIZER   | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 75 A      | IWB   | A206747 | N/A       | RCP 21 SEAL          | VALVE 246     | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 76 A      | IWB   | A206747 | N/A       | RCP 22 SEAL          | LINE 75       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 77 A      | IWB   | A206747 | N/A       | RCP 23 SEAL          | LINE 78       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 78 A      | IWB   | A206747 | N/A       | RCP 24 SEAL          | LINE 75       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 79 A      | IWB   | A206747 | N/A       | REGEN Hx             | LOOP 21       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 80 A      | IWB   | A206747 | N/A       | REGEN Hx             | LOOP 22       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 81 A      | IWB   | A206747 | N/A       | LINE 79              | VALVE 508B    | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 82 A      | IWB   | A206747 | N/A       | LOOP 22              | VALVE 505B    | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 83 A      | IWB   | A206747 | N/A       | VALVE 511B           | LOOP 23       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 84 A      | IWB   | A206747 | N/A       | VALVE 515B           | LOOP 24       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 96 A      | IWB   | A206747 | N/A       | LINE 80              | LOOP 21       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 97 A      | IWB   | A206747 | N/A       | LOOP 21              | HCV 123       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 342 A     | IWB   | A206747 | N/A       | PCV 464              | PRESSURIZER   | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 343 A     | IWB   | A206747 | N/A       | PCV 466              | PRESSURIZER   | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 344 A     | IWB   | A206747 | N/A       | PCV 468              | PRESSURIZER   | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 350 A     | IWB   | A206747 | N/A       | VALVE 894D           | LOOP 24       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 351 A     | IWB   | A206747 | N/A       | VALVE 894A           | LOOP 21       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 352 A     | IWB   | A206747 | N/A       | LOOP 22              | VALVE 894B    | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 353 A     | IWB   | A206747 | N/A       | VALVE 894C           | LOOP 23       | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 355 A     | IWB   | A206747 | N/A       | LINE 361             | LINE 351      | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 356 A     | IWB   | A206747 | N/A       | LINE 361             | LINE 352      | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 358 A     | IWB   | A206747 | N/A       | LINE 361             | LINE 353      | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 361 A     | IWB   | A206747 | N/A       | VALVES 746.747       | LINE 350      | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 445 A     | IWB   | A206747 | N/A       | LINE 81              | VALVE 541     | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 474 A     | IWB   | A206747 | N/A       | PT-458               | VALVE 580B    | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 486 A     | IWB   | A206747 | N/A       | RCP 21               | PT 147        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 487 A     | IWB   | A206747 | N/A       | RCP 21               | PT 147        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 488 A     | IWB   | A206747 | N/A       | RCP 22               | PT 145        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 489 A     | IWB   | A206747 | N/A       | RCP 22               | PT 145        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 490 A     | IWB   | A206747 | N/A       | RCP 23               | PT 131        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 491 A     | IWB   | A206747 | N/A       | RCP 23               | PT 131        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 492 A     | IWB   | A206747 | N/A       | RCP 24               | PT 124        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 493 A     | IWB   | A206747 | N/A       | RCP 24               | PT 124        | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 522 A     | IWB   | A206747 | N/A       | LINE 527             | VALVE 4143    | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| 527 A     | IWB   | A206747 | N/A       | RV HEAD              | HCV 3101      | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 21A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | OUTLET RCP 21 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 21A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | NOZZLE S/G 21 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 21A  | IWB   | A206747 | N/A       | OUTLET S/G 21        | INLET RCP 21  | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 22A  | IWB   | A206747 | N/A       | OUTLET S/G 22        | INLET RCP 22  | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 22A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | NOZZLE S/G 22 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 22A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | OUTLET RCP 22 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 23A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | NOZZLE S/G 23 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 23A  | IWB   | A206747 | N/A       | OUTLET S/G 23        | INLET RCP 23  | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 23A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | OUTLET RCP 23 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 24A  | IWB   | A206747 | N/A       | OUTLET S/G 24        | INLET RCP 24  | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 21A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | OUTLET RCP 24 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |
| LOOP 21A  | IWB   | A206747 | N/A       | REACTOR NOZZLE       | NOZZLE S/G 24 | NONE      | 2385 | 2455 | SYSRV | 330  | CVCS WATER | N/A     |

| PROC | LINE | QA  | IW      | DRAWING | ISOMETRIC   | FROM                  | TO   | COMPONENT    | MPP  | MAP  | RV    | TEMP | TEST | MEDIA | TEST   | PT |
|------|------|-----|---------|---------|-------------|-----------------------|------|--------------|------|------|-------|------|------|-------|--------|----|
| R75  |      | GR  |         | P&ID    | NUMBER      |                       |      |              | PSIG | PSIG | SET   | MIN  |      |       |        |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | S/G 21       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | S/G 22       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 22 SEAL  | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | REGEN Hx     | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | EXC LETDN Hx | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | REACTOR HEAD | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 22       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | REACT VESSEL | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | KCP 21 SEAL  | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 23       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 21       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 24 SEAL  | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | S/G 24       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | INCORE INST  | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 24       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | S/G 23       | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RVLIS HEAD   | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | PRESSURIZER  | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| N/A  | A    | IWB | A206747 | N/A     | N/A         | N/A                   | N/A  | RCP 23 SEAL  | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 10   | A    | IWB | A206747 | N/A     | LOOP 22     | VALVE 730             | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 16   | A    | IWB | A206747 | N/A     | VALVE 856F  | LOOP 21               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 16   | A    | IWB | A206747 | N/A     | VALVE 856D  | LINE 352              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 16   | A    | IWB | A206747 | N/A     | VALVE 856C  | LINE 350              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 17   | A    | IWB | A206747 | N/A     | RCP 22 SEAL | VALVE 244B            | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 17   | A    | IWB | A206747 | N/A     | RCP 21 SEAL | VALVE 244A            | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 17   | A    | IWB | A206747 | N/A     | RCP 23 SEAL | VALVE 244C            | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 17   | A    | IWB | A206747 | N/A     | RCP 24 SEAL | VALVE 244D            | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 19   | A    | IWB | A206747 | N/A     | REGEN Hx    | VALVE 205             | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 25   | A    | IWB | A206747 | N/A     | VALVE 956B  | LINE 70               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 26   | A    | IWB | A206747 | N/A     | VALVE 956D  | PRESSURIZER           | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 27   | A    | IWB | A206747 | N/A     | REGEN Hx    | VLVS 200A, 200B, 200C | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839B  | LINE 351              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839E  | LINE 353              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839G  | LINE 350              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839F  | LINE 353              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839H  | LINE 350              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839D  | LINE 352              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839A  | LINE 351              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 31   | A    | IWB | A206747 | N/A     | VALVE 839C  | LINE 352              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 41   | A    | IWB | A206747 | N/A     | VC WALL     | RCP 21                | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 41   | A    | IWB | A206747 | N/A     | VALVE 250A  | VC WALL               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | CH PMP |    |
| 42   | A    | IWB | A206747 | N/A     | VALVE 250B  | VC WALL               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 42   | A    | IWB | A206747 | N/A     | VC WALL     | RCP 22                | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 43   | A    | IWB | A206747 | N/A     | VC WALL     | RCP 23                | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 43   | A    | IWB | A206747 | N/A     | VALVE 250C  | VC WALL               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 44   | A    | IWB | A206747 | N/A     | VC WALL     | RCP 24                | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 44   | A    | IWB | A206747 | N/A     | VALVE 250D  | VC WALL               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 56   | A    | IWB | A206747 | N/A     | VALVE 856A  | LINE 351              | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 56   | A    | IWB | A206747 | N/A     | VALVE 856E  | LOOP 23               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 59   | A    | IWB | A206747 | N/A     | LOOP 21     | VALVE 955A            | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 59   | A    | IWB | A206747 | N/A     | VALVE 956F  | VALVES 955A AND 955B  | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 59   | A    | IWB | A206747 | N/A     | VALVE 955B  | LOOP 23               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 61   | A    | IWB | A206747 | N/A     | LOOP 23     | PRESSURIZER           | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 62   | A    | IWB | A206747 | N/A     | LINE 61     | LOOP 24               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 63   | A    | IWB | A206747 | N/A     | LOOP 24     | PRESSURIZER           | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |
| 64   | A    | IWB | A206747 | N/A     | LINE 80     | LINE 61               | NONE | NONE         | 2385 | 2455 | SYSRV | 330  | CVCS | WATER | N/A    |    |

TABLE 4

SUMMARY OF REPORTED INDICATIONS

QUALITY GROUP A, B AND C PRESSURE RETAINING COMPONENTS

Quality Group A Pressure Retaining Components

| <u>Leakage Type</u> | <u># Found</u> | <u># Repaired</u> | <u># Deferred</u> |
|---------------------|----------------|-------------------|-------------------|
| Mechanical Joint    | 10             | 9                 | 1                 |
| Packing             | 1              | 1                 | -                 |
| Flange              | 1              | 1                 | -                 |
| Body to Bonnet      | 2              | 2                 | -                 |
| TOTALS              | 14             | 13                | 1                 |

Quality Group B Pressure Retaining Components

| <u>Leakage Type</u> | <u># Found</u> | <u># Repaired</u> | <u># Deferred</u> | <u>#Accepted As Is</u> |
|---------------------|----------------|-------------------|-------------------|------------------------|
| Packing             | 19             | 8                 | 1                 | 10                     |
| Mechanical Seal     | 1              | 1                 | -                 | -                      |
| Body to Bonnet      | 1              | 1                 | -                 | -                      |
| Flange              | 1              | -                 | 1                 | -                      |
| TOTALS              | 22             | 10                | 2                 | 10                     |

Quality Group C Pressure Retaining Components

No Indications Reported.

**FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS**

As required by the Provisions of the ASME Code Rules

1. Owner Consolidated Edison Company of New York, 4 Irving Place, NY, NY 10003  
(Name and Address of Owner)

2. Plant Indian Point, Broadway and Bleakley, Buchanan, New York 10511  
(Name and Address of Plant)

3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 7-1-74 6. National Board Number for Unit N/A

7. Components Inspected

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|---------------------------|---------------------------|--------------------------------------|-----------------------|--------------------|
| Reactor Vessel            | Combustion Engineering    | 65201                                | --                    | 20756              |
| St.Gen.21                 | Westinghouse              | 16A5780-1                            | --                    | 732                |
| St.Gen.22                 | Westinghouse              | 16A5780-2                            | --                    | 734                |
| St.Gen.23                 | Westinghouse              | 16A5780-3                            | --                    | 736                |
| St.Gen.24                 | Westinghouse              | 16A5780-4                            | --                    | 738                |
| Class 1 Piping            | United Engr. & Constr.    | --                                   | --                    | --                 |
| R.C. Pump 21              | Westinghouse              | RCPCPI-01                            | --                    | --                 |
| R.C. Pump 23              | Westinghouse              | RCPCPI-03                            | --                    | --                 |
| Class 2 Piping            | United Engr. & Constr.    | --                                   | --                    | --                 |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates 1/25/86 to 3/4/86 9. Inspection Interval from 7-1-84 to 7-1-94

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Reference Tab B and Tab C

11. Abstract of Conditions Noted Reference Tab B and Tab F

12. Abstract of Corrective Measures Recommended and Taken Reference Tab B and Tab F

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

Date July 21 19 86 Signed Con Edison By HW Zitzelberger  
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date \_\_\_\_\_

**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 New York and employed by HSBI&I Co. of Hartford, CT have inspected the components described in this Owners' Data Report during the period Jan. 14, 1986 to May 26, 1986, 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 examinations 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 July 21, 19 86

Robert A. Becker  
Inspector's Signature

Commissions NB 7784 NY 2710  
National Board, State, Province and No.