## FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

| Owner: Duke               |  |   |  | 28201-1006  |
|---------------------------|--|---|--|---|
| Plant: McGu               |  |   |  | 8216  |
| Plant Unit:               | 1 4. Owne  | er Certificate of Au  | thorization (if requ   | uired) N/A  |
| Commercial S              | Service Date: Dec  | ember 1, 1981 6   | . National Board N   | Number for Unit 44  |
| Components                | Inspected:   |   |  |   |
| Component or Appurtenance | Manufacturer or<br>Installer                                 | Manufacturer or<br>Installer Serial<br>No.  | State or<br>Province No.   | National<br>Board No.   |
|                           | See Sec  | tion 1.1 in the Attach  | ned Report   |   |
|                           | Plant: McGu Plant Unit: Commercial S Components Component or | Plant: McGuire Nuclear Station (Name Plant Unit: 1 4. Owner Commercial Service Date: Decider Components Inspected:  Component or Appurtenance Installer | Plant: McGuire Nuclear Station, Highway 73 Cov (Name and Address of Plant Unit: 1 4. Owner Certificate of Au Commercial Service Date: December 1, 1981 6 Components Inspected:  Component or Manufacturer or Manufacturer or Appurtenance Installer Installer Serial No. | Components Inspected:  Component or Manufacturer or Manufacturer or State or Appurtenance Installer Installer Serial Province No. |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is  $8^{1}/2$  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.

|  |  | F  | FORM NIS-1 (Back)  |   |
|--|--|--|--|---|
| 8.                                       | Examination Dates  | May 20, 199  | 97 to July 01, 1998  |   |
| <b>3</b> 9.                              | Inspection Period Identif  | ication:   | Second period of the Second Interval   |   |
| 10.                                      | Inspection Interval Identi   | fication:  | Second Inservice Inspection Interval   |   |
| 11.                                      | Applicable Edition of Sec  | ction XI   | 1989 Addenda None  |   |
| 12.                                      | Date/Revision of Inspect   | ion Plan:  | April 24, 1998/Revision 2  |   |
| 13.                                      | Abstract of Examinations status of work required for   | and Test. Income the Inspection  | lude a list of examinations and tests and a standard Plan.  See Sections 3.0, 4.0, and 11.0  | atement concerning  |
| 14.                                      | Abstract of Lesults of Ex  | amination and  | Tests. See Section 5.0, and 11.0   |   |
| 15.                                      | Abstract of Corrective Me  | easures.   | See Section 8.0  |   |
| inspe                                    | certify that a) the statement<br>ection Plan as required by<br>s of the ASME Code, Secti   | the ASME Co  | s report are correct b) the examinations and to<br>de, Section XI, and c) corrective measures ta   | ests meet the<br>ken conform to the   |
| Certi                                    | ficate of Authorization No.  |  | The second secon | N/A   |
| Date                                     | 9/22 19 98   | Signed D   | Owner Owner  | Rhyne   |
| DER                                      | TIFICATE OF INSERVICE  | EINSPECTION  | 1  |   |
| periodo Own in acc By si conc neith or a | ectors and the State of Productions of the State of Production of the State of Table 1997 of the State | have inspected 9-22-98 ations and tests ion Plan and as er the Inspecto test, and correct mployer shall be om or connected |  | eport during the ge and belief, the the Owners' Report essed or implied, ort. Furthermore, or property damage |
| Insp                                     | Al flein<br>pector's signature   | Commissions<br>National Boar   | nd, State, Province, and Endorsements  | •   |
| Date                                     | 9-22   | 1998   |  |   |
| 200 /<br>Suite                           | e Hartford Steam Boiler In<br>Ashford Center North<br>9 300<br>hta, GA. 30338  | spection & Insu  | urance Co.   |   |

## INSERVICE INSPECTION REPORT

### UNIT 1 MCGUIRE 1998 OUTAGE 5/EOC 12

Location: Hwy. 73, Cowans Ford, North Carolina 28216

NRC Docket No. 50-369

National Board No. 44

Commercial Service Date: December 1, 1981

Owner: Duke Energy Corporation 526 South Church St. Charlotte, N. C. 28201-1006

Revision 0

| Prepared By: | Hay 1   | Scaboro      | Date      | 9/22/98      |
|--------------|---------|--------------|-----------|--------------|
| Reviewed By: | Jany &  | Merwood      | Date      | 9/22/98      |
| Approved By: | I. Kevi | w Phyne      | Date      | 9/22/98      |
| Copy No.     | 2       | Assigned To  | NRC Docum | nent Control |
| Controlled   | X       | Uncontrolled |           |              |

## CONTROLLED DISTRIBUTION

| Copy No. | Assigned To   |
|----------|---|
| Original | Duke Energy Corporation<br>Quality Assurance<br>Technical Services      |
| 1        | McGuire Mechanical<br>Maintenance/ QA Technical<br>Support              |
| 2        | NRC Document Control  |
| UNCON    | TROLLED DISTRIBUTION  |
| 3        | Hartford Steam Boiler<br>Inspection and Insurance<br>Corporation (AIA)  |
| 4        | State of North Carolina<br>Department of Labor<br>c/o J. M. Givens, Jr. |

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#### 1.0 General Information

This report describes the Inservice Inspection of Duke Energy Corporation's McGuire Nuclear Station Unit 1 during Outage 5/EOC 12. This is the Third Outage of the Second Inspection Period of the Second Ten-Year Interval.

Included in this report are: the final Inservice Inspection Plan, the inspection results for each item, a summary for each category of examination and corrective action taken when unacceptable conditions were found. In addition, there is a section included for repairs and replacements required since May 20, 1997.

#### 1.1 Identification Numbers

| Item                                | Manufacturer<br>or Installer | Manufacturer<br>or Installer<br>Serial No. | State or Province No.  | National<br>Board<br>No. |
|-------------------------------------|------------------------------|--|------------------------|--------------------------|
| Reactor Vessel                      | Combustion<br>Engineering    | CE67102                                    | NC-178379              | 20766                    |
| Pressurizer                         | Westinghouse                 | 1471                                       | NC-178395              | 68-123                   |
| Steam Generator 1A                  | BWI                          | 7701-04                                    | NC-302668              | 157                      |
| Steam Generator 1B                  | BWI                          | 7693-01                                    | NC-302669              | 146                      |
| Steam Generator 1C                  | BWI                          | 7701-03                                    | NC-302670              | 155                      |
| Steam Generator 1D                  | BWI                          | 7701-02                                    | NC-302671              | 154                      |
| Centrifugal<br>Charging Pump        | Pacific Pumps                | 1A - 48582<br>1B - 48583                   | N/A                    | 19<br>22                 |
| Containment Spray Heat<br>Exchanger | Delta Southern Co.           | 1A-35005-73-1<br>1B-35005-73-2             | NC-147799<br>NC-147796 | 3394<br>3395             |

## 1.1 Identification Numbers

#### Continued

| Item  | Manufacturer<br>or Installer              | Manufacturer<br>or Installer<br>Serial No.                               | State or<br>Province No. | National<br>Board<br>No. |
|---|---|--|--------------------------|--------------------------|
| Excess Letdown Heat<br>Exchanger                  | Westinghouse                              | 1809   | NC-187817                | 1554                     |
| Letdown Heat Exchanger                            | Joseph Oat & Sons, Inc.                   | 2049-2A  | NC-187881                | 552                      |
| Reciprocating Charging<br>Pump                    | Westinghouse                              | N721031B-603   | N/A                      | N/A                      |
| Reactor Coolant Pump                              | Westinghouse                              | 1A 1-114E841G01<br>1B 2-114E841G01<br>1C 3-114E841G01<br>1D 4-114E841G01 | N/A                      | N/A                      |
| Reciprocating Charging<br>Pump Accumulator        | Metal Bellows Company                     | 74730-001  | N/A                      | 001                      |
| Reciprocating Charging<br>Pump Suction Stabilizer | Richmond Engineering<br>Supply Co.        | N-2409.10  | N/A                      | 75219                    |
| Residual Heat<br>Removal Heat<br>Exchanger        | Joseph Oat & Sons, Inc.                   | 1A 2046-2A<br>1B 2046-2A   | NC-234202<br>NC-234201   | 635<br>636               |
| Safety Injection Pump                             | Pacific Pumps                             | 1A 49355<br>1B 49356   | N/A                      | 80<br>81                 |
| Regenerative Heat<br>Exchanger                    | Joseph Oat & Sons, Inc.                   | 2047-2A  | NC-187897                | 595<br>596<br>597        |
| Seal Water Heat<br>Exchanger                      | Atlas Industrial<br>Manufacturing Company | 1766   | NC 169797                | 1548                     |
| Seal Water<br>Injection Filter                    | AMF Cuno                                  | 1A - 13<br>1B - 14   | N/A                      | 3822<br>3823             |

## 1.1 Identification Numbers

#### Continued

| Item  | Manufacturer<br>or Installer | Manufacturer<br>or Installer<br>Serial No. | State or Province No. | National<br>Board<br>No. |
|---|------------------------------|--|-----------------------|--------------------------|
| Main Steam Supply to<br>Auxiliary Equipment<br>System | Duke Power Co.               | SA   | N/A                   | 4                        |
| Containment Air Release and Addition System           | Duke Power Co.               | VQ   | N/A                   | 12                       |
| Main Steam System                                     | Duke Power Co.               | SM   | N/A                   | 17                       |
| Main Steam Vent to<br>Atmosphere System               | Duke Power Co.               | SV   | N/A                   | 18                       |
| Reactor Coolant System                                | Duke Power Co.               | NC   | N/A                   | 28                       |
| Liquid Waste Recycle<br>System                        | Duke Power Co.               | WL   | N/A                   | 29                       |
| Refueling Water System                                | Duke Power Co.               | FW   | N/A                   | 31                       |
| Auxiliary Feedwater                                   | Duke Power Co.               | CA   | N/A                   | 32                       |
| Residual Heat Removal<br>System                       | Duke Power Co.               | ND   | N/A                   | 35                       |
| Nuclear Service Water<br>System                       | Duke Power Co.               | RN   | N/A                   | 36                       |
| Chemical & Volume<br>Control System                   | Duke Power Co.               | NV   | N/A                   | 37                       |
| Component Cooling<br>System                           | Duke Power Co.               | КС   | N/A                   | 38                       |
| Main Feedwater System                                 | Duke Power Co.               | CF   | N/A                   | 39                       |
| Containment Spray<br>System                           | Duke Power Co.               | NS   | N/A                   | 40                       |

### 1.1 Identification Numbers

#### Continued

| Item  | Manufacturer<br>or Installer | Manufacturer<br>or Installer<br>Serial No. | State or Province No. | Nationa<br>Board<br>No. |
|---|------------------------------|--|-----------------------|-------------------------|
| Containment Ventilation<br>Cooling Water System | Duke Power Co.               | RV   | N/A                   | 41                      |
| Safety Injection System                         | Duke Power Co.               | NI   | N/A                   | 42                      |
| Containment Purge<br>Ventilation                | Duke Power Co.               | VP   | N/A                   | 6                       |
| Safety Injection<br>Accumulator Tank 1A         | Delta Southern Co.           | 41617-72-1                                 | NC-178396             | 3038                    |
| Safety Injection<br>Accumulator Tank 1B         | Delta Southern Co.           | 41617-72-2                                 | NC-178397             | 3039                    |
| Safety Injection<br>Accumulator Tank 1C         | Delta Southern Co.           | 41617-72-3                                 | NC-178398             | 3040                    |
| Safety Injection<br>Accumulator Tank 1D         | Delta Southern Co.           | 41617-72-4                                 | NC-178399             | 3041                    |
| Unit 1  | Duke Power Co.               | N/A  | N/A                   | 44                      |

### 1.2 Authorized Nuclear Inservice Inspector(s)

Name:

R. D. Klein

Employer:

The Hartford Steam Boiler Inspection & Insurance Company

Business Address: The Hartford Steam Boiler Inspection & Insurance Co. 200 Ashford Center North

Suite 300

Atlanta, GA 30338

### 2.0 Summary of Inservice Inspections

The information shown below provides an abstract of ASME Section XI Class 1, Class 2, and Augmented Items scheduled and examined during Outage 5/EOC 12 at McGuire Nuclear Station Unit 1.

#### 2.1 Class 1 Inspection

Examination Category B-A Pressure Retaining Welds in Reactor Vessel

| Item<br>Number | Description           | Total Examined<br>During Outage |
|----------------|-----------------------|---------------------------------|
| B01.010        | Shell Welds           |                                 |
| B01.011        | Circumferential       | 0                               |
| B01.012        | Longitudinal          | N/A                             |
| B01.020        | Head Welds            |                                 |
| B01.021        | Circumferential       | 0                               |
| B01.022        | Meridional            | 0                               |
| B01.030        | Shell-to-Flange Welds | 0                               |
| B01.040        | Head-to-Flange Welds  | 0                               |
| B01.050        | Repair Welds          |                                 |
| B01.051        | Beltline Region       | N/A                             |
| TOTALS         |                       | 0                               |

#### **Examination Category B-B**

## Pressure Retaining Welds in Vessels Other than Reactor Vessels

| Item<br>Number | Description                             | Total Examined During Outage |
|----------------|---|------------------------------|
|                | Pressurizer                             |                              |
| B02.010        | Shell-to-Head Welds                     |                              |
| B02.011        | Circumferential                         | * 2                          |
| B02.012        | Longitudinal                            | 0                            |
| B02.020        | Head Welds                              |                              |
| B02.021        | Circumferential                         | N/A                          |
| B02.022        | Meridional                              | N/A                          |
|                | Steam Generators<br>(Primary Side)      |                              |
| B02.030        | Head Welds                              |                              |
| B02.031        | Circumferential                         | N/A                          |
| B02.032        | Meridional                              | N/A                          |
| B02.040        | Tubesheet-to-Head Weld                  | 0                            |
|                | Heat Exchangers<br>(Primary Side) Head  |                              |
| B02.050        | Head Welds                              |                              |
| B02.051        | Circumferential                         | N/A                          |
| B02.052        | Meridional                              | N/A                          |
|                | Heat Exchangers<br>(Primary Side) Shell |                              |
| B02.060        | Tubesheet-to-Head Welds                 | N/A                          |
| B02.070        | Longitudinal Welds                      | N/A                          |
| B02.080        | Tubesheet-to-Shell Welds                | N/A                          |
| TOTALS         |   | * 2                          |

<sup>\*</sup> Examined to meet the requirements of the 1980 ASME Section XI Code (IWB-2420).

#### **Examination Category B-D**

#### Full Penetration Welds of Nozzles in Vessels Inspection Program B

| Item<br>Number | Description                        | Total Examined<br>During Outage  |
|----------------|------------------------------------|--|
|                | Reactor Vessel                     | THE PROPERTY OF THE PARTY OF TH |
| B03.090        | Nozzle-to-Vessel Welds             | 0  |
| B03.100        | Nozzle Inside Radius Section       | 0  |
|                | Pressurizer                        |  |
| B03.110        | Nozzle-to-Vessel Welds             | 0  |
| B03.120        | Nozzle Inside Radius Section       | 0  |
| Works on the   | Steam Generators<br>(Primary Side) | The Dan Land   |
| B03.130        | Nozzle-to-Vessel Welds             | N/A  |
| B03.140        | Nozzle Inside Radius Section       | 2  |
|                | Heat Exchangers<br>(Primary Side)  |  |
| B03.150        | Nozzle-to-Vessel Welds             | N/A  |
| B03.160        | Nozzle Inside Radius Section       | N/A  |
| TOTALS         |                                    | 2  |

Examination Category B-E Pressure Retaining Partial Penetration Welds in Vessels

REFERENCE SECTION 11.0 OF THIS REPORT

## Examination Category B-F Pressure Retaining Dissimilar Metal Welds

| Item<br>Number | Description   | Total Examined<br>During Outage |
|----------------|---|---------------------------------|
|                | Reactor Vessel  |                                 |
| B05.010        | Nominal Pipe Size 4" or Larger<br>Nozzle-to-Safe End Butt Welds | 0                               |
| B05.020        | Nominal Pipe Size Less Than 4"<br>Nozzle-to-Safe End Butt Welds | N/A                             |
| B05.030        | Nozzle-to-Safe End Socket Welds                                 | N/A                             |
|                | Pressurizer   |                                 |
| B05.040        | Nominal Pipe Size 4" or Larger<br>Nozzle-to-Safe End Butt Welds | 0                               |
| B05.050        | Nominal Pipe Size Less Than 4"<br>Nozzle-to-Safe End Butt Welds | * N/A                           |
| B05.060        | Nozzle-to-Safe End Socket Welds                                 | N/A                             |
|                | Steam Generator   |                                 |
| B05.070        | Nominal Pipe Size 4" or Larger<br>Nozzle-to-Safe End Butt Welds | 0                               |
| B05.080        | Nominal Pipe Size Less Than 4"<br>Nozzle-to-Safe End Butt Welds | N/A                             |
| B05.090        | Nozzle-to-Safe End Socket Welds                                 | N/A                             |
|                | Heat Exchangers   |                                 |
| B05.100        | Nominal Pipe Size 4" or Larger<br>Nozzle-to-Safe End Butt Welds | N/A                             |
| B05.110        | Nominal Pipe Size Less Than 4"<br>Nozzle-to-Safe End Butt Welds | N/A                             |
| B05.120        | Nozzle-to-Safe End Socket Welds                                 | N/A                             |

### **Examination Category B-F**

#### (Continued)

|         | Piping  |     |
|---------|---|-----|
| B05.130 | Nominal Pipe Size 4" or Larger<br>Dissimilar Metal Butt Welds | 0   |
| B05.140 | Nominal Pipe Size Less Than 4"<br>Dissimilar Metal Butt Welds | N/A |
| B05.150 | Dissimilar Metal Socket Welds                                 | N/A |
| TOTALS  |   | 0   |

#### Examination Category B-G-1 Pressure Retaining Bolting, Greater Than 2" in Diameter

| Item<br>Number | Description                                   | Total Examined During Outage   |
|----------------|---|--|
|                | Reactor Vessel                                | HEAD TO SERVICE STATE OF THE S |
| B06.010        | Closure Head Nuts                             | 0  |
| B06.020        | Closure Studs (in place)                      | 0  |
| B06.030        | Closure Studs (when removed)                  | 0  |
| B06.040        | Threads in Flange                             | 0  |
| B06.050        | Closure Washers, Bushings                     | 0  |
|                | Pressurizer                                   |  |
| B06.060        | Bolts and Studs                               | N/A  |
| B06.070        | Flange Surface (when connection disassembled) | N/A  |
| B06.080        | Nuts, Bushings, and Washers                   | N/A  |
|                | Steam Generators                              |  |
| B06.090        | Bolts and Studs                               | 0  |
| B06.100        | Flange Surface (when connection disassembled) | 8  |
| B06.110        | Nuts, Bushings, and Washers                   | 0  |
|                | Heat Exchangers                               |  |
| B06.120        | Bolts and Studs                               | N/A  |
| B06.130        | Flange Surface (when connection disassembled) | N/A  |
| B06.140        | Nuts, Bushings, and Washers                   | N/A  |
|                | Piping  |  |
| B06.150        | Bolts and Studs                               | N/A  |
| B06.160        | Flange Surface (when connection disassembled) | N/A  |

### Examination Category B-G-1

#### (Continued)

| Item<br>Number | Description  | Total Examined During Outage |
|----------------|--|------------------------------|
| B06.170        | Nuts, Bushings, and Washers                                | N/A                          |
|                | Pumps  |                              |
| B06.180        | Bolts and Studs  | 0                            |
| B06.190        | Flange Surface <sup>1</sup> (when connection disassembled) | 0                            |
| B06.200        | Nuts, Bushings, and Washers                                | 0                            |
|                | Valves   |                              |
| B06.210        | Bolts and Studs  | N/A                          |
| B06.220        | Flange Surface <sup>1</sup> (when connection disassembled) | N/A                          |
| B06.230        | Nuts, Bushings, and Washers                                | N/A                          |
| TOTALS         |  | 8                            |

<sup>&</sup>lt;sup>1</sup> Note: Items to be inspected but will not be counted in percentages for the B-G-1 category

## Examination Category B-G-2 Pressure Retaining Bolting, 2" and Less in Diameter

| Item<br>Number    | Description   | Total Examined During Outage |
|-------------------|---|------------------------------|
| and the second    | Reactor Vessel  |                              |
| B07.010           | Bolts, Studs, and Nuts  | N/A                          |
| Angerief in Alleg | Pressurizer   |                              |
| B07.020           | Bolts, Studs, and Nuts  | 0                            |
|                   | Steam Generators  |                              |
| B07.030           | Bolts, Studs, and Nuts  | 0                            |
|                   | Heat Exchangers   |                              |
| B07.040           | Bolts, Studs, and Nuts  | N/A                          |
|                   | Piping  |                              |
| B07.050           | Bolts, Studs, and Nuts  | 0                            |
|                   | Pumps   |                              |
| B07.060           | Bolts, Studs, and Nuts  | 0                            |
|                   | Valves  |                              |
| B07.070           | Bolts, Studs, and Nuts  | 1                            |
|                   | CRD Housing   |                              |
| B07.080           | Bolts, Studs, and Nuts in CRD<br>Housing when disassembled <sup>2</sup> | 0                            |
| TOTALS            |   | 1                            |

<sup>&</sup>lt;sup>2</sup> Items to be inspected but will not be counted in percentages for the B-G-2 category

### Examination Category B-H Integral Attachments for Vessels

| Item<br>Number | Description                   | Total Examined During Outage |
|----------------|-------------------------------|------------------------------|
|                | Reactor Vessel                |                              |
| B08.010        | Integrally Welded Attachments | 0                            |
|                | Pressurizer                   |                              |
| B08.020        | Integrally Welded Attachments | 0                            |
|                | Steam Generators              |                              |
| B08.030        | Integrally Welded Attachments | N/A                          |
|                | Heat Exchangers               |                              |
| B08.040        | Integrally Welded Attachments | N/A                          |
| TOTALS         |                               | 0                            |

### Examination Category B-J Pressure Retaining Welds in Piping

| Item<br>Nurnber | Description                     | Total Examined During Outage |
|-----------------|---------------------------------|------------------------------|
| B09.010         | Nominal Pipe Size 4" or Larger  |                              |
| B09.011         | Circumferential Welds           | 9                            |
| B09.012         | Longitudinal Welds <sup>3</sup> | N/A                          |
| B09.020         | Nominal Pipe Size Less than 4"  |                              |
| B09.021         | Circumferential Welds           | 2                            |
| B09.022         | Longitudinal Welds 3            | N/A                          |

### **Examination Category B-J**

### (Continued)

| B09.030 | Branch Pipe Connection Welds   |    |
|---------|--------------------------------|----|
| B09.031 | Nominal Pipe Size 4" or Larger | 1  |
| B09.032 | Less than Nominal Pipe Size 4" | 3  |
| B09.040 | Socket Welds                   | 9  |
| TOTALS  |                                | 24 |

<sup>&</sup>lt;sup>3</sup> Longitudinal welds in Examination Category B-J that intersect circumferential welds are examined per Code Case N-524.

# Examination Category B-K-1 Integral Attachments for Piping, Pumps and Valves

| Item<br>Number | Description                   | Total Examined<br>During Outage |
|----------------|-------------------------------|---------------------------------|
|                | Piping                        |                                 |
| B10.010        | Integrally Welded Attachments | N/A                             |
|                | Pumps                         |                                 |
| B10.020        | Integrally Welded Attachments | N/A                             |
|                | Valves                        |                                 |
| B10.030        | Integrally Welded Attachments | N/A                             |
| TOTALS         |                               | N/A                             |

### Examination Category B-L-1, B-M-1

Pressure Retaining Welds in Pump Casings and Valve Bodies

B-L-2, B-M-2 Pump Casings and Valve Bodies

| Item<br>Number   | Description  | Total Examined During Outage |
|--|--|------------------------------|
|  | Pumps  |                              |
| B12.010  | Pump Casing Welds (B-L-1)  | N/A                          |
| B12.020  | Pump Casing (B-L-2)<br>(when disassembled for Maintenance<br>Repair or Volumetric Examination) | 0                            |
| Control of the Contro | Valves   |                              |
| B12.030  | Valves, Nominal Pipe Size Less than<br>4" Valve Body Welds (B-M-1)                             | N/A                          |
| B12.040  | Valves, Nominal Pipe Size 4" or Larger Valve Body Welds (B-M-1)                                | N/A                          |
| B12.050  | Valve Body, Exceeding 4" Nominal<br>Pipe Size (B-M-2)  | 0                            |
| TOTALS   |  | 0                            |

**Examination Category** 

B-N-1 Interior of Reactor Vessel

B-N-2 Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessels

B-N-3 Removable Core Support Structures

| Item<br>Number | Description             | Total Examined During Outage |
|----------------|-------------------------|------------------------------|
| •              | Reactor Vessel          | 7                            |
| B13.010        | Vessel Interior (B-N-1) | 0                            |

Examination Category B-N-1, B-N-1, B-N-3 (Continued)

|         | Reactor Vessel (PWR)                                    | W.  |
|---------|---|-----|
| B13.050 | Interior Attachments Within the Beltline Region (B-N-2) | N/A |
| B13.060 | Interior Attachments Beyond Beltline<br>Region (B-N-2)  | 0   |
| B13.070 | Core Support Structure (B-N-3)                          | 0   |
| TOTALS  |   | 0   |

## Examination Category B-O Pressure Retaining Welds in Control Rod Housings

| Item<br>Number | Description          | Total Examined<br>During Outage |
|----------------|----------------------|---------------------------------|
| 1,             | Reactor Vessel       |                                 |
| B14.010        | Welds in CRD Housing | 0                               |
| TOTALS         |                      | 0                               |

Examination Category B-P All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

## Examination Category B-Q Steam Generator Tubing<sup>4</sup>

| Item<br>Number | Description   | Total Examined<br>During Outage |
|----------------|---|---------------------------------|
| B16.010        | Steam Generator Tubing in Straight<br>Tube Design       | N/A                             |
| B16.020        | Steam Generator Tubing in U-Tube<br>Design <sup>4</sup> | N/A                             |
| TOTALS         |   | N/A                             |

<sup>&</sup>lt;sup>4</sup> Steam Generator Tubing is examined and documented by the Steam Generator Maintenance Group of the Nuclear Services Division as required by the Station Technical Specifications and is not included in this report.

## Examination Category F-A Class 1 Component Supports

| Item<br>Number | Description   | Total Examined<br>During Outage |
|----------------|---|---------------------------------|
| F01.010        | Class 1 Piping Supports<br>Reference Section 4.0 of this report | 6                               |
| TOTALS         |   | 6                               |

#### 2.2 Class 2 Inspections

## Examination Category C-A Pressure Retaining Welds in Pressure Vessels

| Item<br>Number | Description                 | Total Examined<br>During Outage |
|----------------|-----------------------------|---------------------------------|
| C01.010        | Shell Circumferential Welds |                                 |
| C31.020        | Head Circumferential Welds  | * 2                             |
| C01.030        | Tubesheet-to-Shell Weld     | *2                              |
| TOTALS         |                             | • 4                             |

<sup>\*</sup>Reference Request For Relief 98-002 and 98-003

## Examination Category C-B Pressure Retaining Nozzle Welds in Vessels

| Item<br>Number | Description  | Total Examined During Outage |
|----------------|--|------------------------------|
| C02.010        | Nozzles in Vessels ≤ 1/2" Nominal Thickness                          |                              |
| C02.011        | Nozzle-to-Shell (or Head) Weld                                       | 0                            |
| C02.020        | Nozzles Without Reinforcing Plate in Vessels >1/2" Nominal Thickness |                              |
| C02.021        | Nozzle-to-Shell (or Head) Weld                                       | 0                            |
| C02.022        | Nozzle Inside Radius Section 5                                       | 0                            |

#### Examination Category C-B

#### (Continued)

| C02.030 | Nozzles With Reinforcing Plate in<br>Vessels >1/2" Nominal Thickness     |     |
|---------|--|-----|
| C02.031 | Reinforcing Plate Welds to Nozzle and Vessel                             | 0   |
| C02.032 | Nozzle-to-Shell (or Head) Welds<br>when Inside of Vessel is Accessible   | N/A |
| C02.033 | Nozzle-to-Shell (or Head) Welds<br>when Inside of Vessel is Inaccessible | 0   |
| TOTALS  |  | 0   |

<sup>&</sup>lt;sup>5</sup> (Item # C02.022) Nozzle Inside Radius Section welds are examined as required by Table IWC-2500-1 Category C-B. However, for reporting purposes, the totals do not reflect the number of Nozzle Inside Radius Section welds examined during this outage. Nozzle Inside Radius Section welds are to be examined in conjunction with C02.021. examinations.

## Examination Category C-C Integral Attachments for Vessels, Piping, Pumps, and Valves

| Item<br>Number | Description                   | Total Examined During Outage |
|----------------|-------------------------------|------------------------------|
|                | Pressure Vessels              |                              |
| C03.010        | Integral Welded Attachments   | 0                            |
|                | Piping                        |                              |
| C03.020        | Integrally Welded Attachments | 0                            |
|                | Pumps                         | 18/4 1/2 1988 1988           |
| C03.030        | Integrally Welded Attachments | 0                            |
|                | Valves                        |                              |
| C03.040        | Integrally Welded Attachments | N/A                          |
| TOTALS         |                               | 0                            |

## Examination Category C-D Pressure Retaining Bolting Greater Than 2" in Diameter

| Item<br>Number                                 | Description      | Total Examined During Outage                 |
|--|------------------|--|
| •  | Pressure Vessels |  |
| C04.010  | Bolts and Studs  | N/A  |
| Lin De Germania Artika<br>Nemaranian in Berlin | Piping           | F1 12 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| C04.020  | Bolts and Studs  | N/A  |
|  | Pumps            |  |
| C04.030  | Bolts and Studs  | N/A  |
|  | Valves           |  |
| C04.040  | Bolts and Studs  | N/A  |
| TOTALS   |                  | N/A  |

#### Examination Category C-F-1 Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping

| Item<br>Number | Description  | Total Examined<br>During Outage |
|----------------|--|---------------------------------|
| C05.010        | Piping Welds ≥ 3/8" Nominal Wall<br>Thickness for Piping > Nominal Pipe<br>Size 4" |                                 |
| C05.011        | Circumferential Weld   | 15                              |
| C05.012        | Longitudinal Weld <sup>6</sup>   | See Code Case<br>N-524          |

| C05.020 | Piping Welds > 1/5" Nominal Wall<br>Thickness for Piping ≥ Nominal Pipe<br>Size 2" and ≤ Nominal Pipe Size 4" |     |
|---------|---|-----|
| C05.021 | Circumferential Weld  | 5   |
| C05.022 | Longitudinal Weld <sup>6</sup>  | N/A |
| C05.030 | Socket Welds  | 6   |
| C05.040 | Pipe Branch Connections of Branch<br>Piping ≥ Nominal Pipe Size 2"  |     |
| C05.041 | Circumferential Weld  | 0   |
| C05.042 | Longitudinal Weld <sup>6</sup>  | N/A |
| TOTALS  |   | 26  |

## Examination Category C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping

| Item<br>Number | Description  | Total Examined<br>During Outage |
|----------------|--|---------------------------------|
| C05.050        | Piping Welds ≥ 3/8" Nominal Wall<br>Thickness for Piping > Nominal Pipe<br>Size 4" |                                 |
| C05.051        | Circumferential Weld   | 8                               |
| C05.052        | Longitudinal Weld <sup>6</sup>   | See Code Case<br>N-524          |

### Examination Category C-F-2

(Continued)

| C05.060 | Piping Welds > 1/5" Nominal Wall<br>Thickness for Piping ≥ Nominal Pipe<br>Size 2" and ≤ Nominal Pipe Size 4" |     |
|---------|---|-----|
| C05.061 | Circumferential Weld  | N/A |
| C05.062 | Longitudinal Weld <sup>6</sup>  | N/A |
| C05.070 | Socket Welds  | N/A |
| C05.080 | Pipe Branch Connections of Branch<br>Piping ≥ Nominal Pipe Size 2"  |     |
| C05.081 | Circumferential Weld  | N/A |
| C05.082 | Longitudinal Weld <sup>6</sup>  | N/A |
| TOTALS  |   | 8   |

<sup>&</sup>lt;sup>6</sup>Longitudinal welds in Examination Categories C-F-1 and C-F-2 that intersect circumferential welds are examined per Code Case N-524.

## Examination Category C-G Pressure Retaining Welds in Pumps and Valves

| Item<br>Number           | Description       | Total Examined<br>During Outage            |
|--------------------------|-------------------|--|
|                          | Pumps             | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1      |
| C06.010                  | Pump Casing Welds | N/A  |
| The second second second | Valves            | 1 (1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / |
| C06.020                  | Valve Body Welds  | 2  |
| TOTALS                   |                   | 2  |

Examination Category C-H All Pressure Retaining Components

REFERENCE SECTION 11.0 OF THIS REPORT

### Examination Category F-A Class 2 Component Supports

| Item<br>Number | Description   | Total Examined<br>During Outage |
|----------------|---|---------------------------------|
| F01.020        | Class 2 Piping Supports<br>Reference Section 4.0 of this report | 16                              |
| TOTALS         |   | 16                              |

#### Examination Category F-A Supports Other than Piping Supports

| Item<br>Number | Description   | Total Examined During Outage |  |
|----------------|---|------------------------------|--|
| F01.040        | Supports other than Piping Supports<br>Class 1, 2 & 3<br>Reference Section 4.0 of this Report | 7                            |  |
| TOTALS         |   | 7                            |  |

#### Examination Category Component Supports Snubbers Class 1, 2 & 3

| Item<br>Number | Description                                   | Total Examined<br>During Outage |
|----------------|---|---------------------------------|
| F01.050        | Component Supports Snubbers<br>Class 1, 2 & 3 | * N/A                           |
| TOTALS         |   |                                 |

<sup>\*</sup> Examinations to be performed per Request for Relief 97-005

### 2.3 Augmented Inspection

| Item<br>Number | Description             | Total Examined<br>During Outage |
|----------------|-------------------------|---------------------------------|
| G01.001        | RCP Flywheel Exam       | 2                               |
| G03.001        | Pipe Rupture Protection | 0                               |
| TOTALS         |                         | 2                               |

### 3.0 Second Ten-Year Interval Inspection Status

The completion status of inspections required by the 1989 ASME Code Section XI, no Addenda is summarized in this section. The requirements are listed by the ASME Section XI Examination Category as defined in Table IWB-2500-1 for Class 1 Inspections, and in Table IWC-2500-1 for Class 2 Inspections. Augmented inspections are also included.

#### Class 1 Inspections

| Examination<br>Category | Description   | Inspections<br>Required | Inspections<br>Completed | Percentage<br>Completed | <sup>8</sup> Deferral<br>Allowed |
|-------------------------|---|-------------------------|--------------------------|-------------------------|----------------------------------|
| B-A                     | Pressure Retaining Welds in Reactor Vessel                              | 28                      | 8                        | 28.57%                  | Yes                              |
| B-B                     | Pressure Retaining Welds<br>in Vessels Other than<br>Reactor Vessel     | 5                       | 3                        | 60.00%                  | No                               |
| B-D                     | Full Penetration Welds of<br>Nozzles in Vessels<br>Inspection Program B | 36                      | 20                       | 55.55%                  | Partial                          |
| B-E                     | Pressure Retaining Partial<br>Penetration Welds in<br>Vessels           | REFEREN                 | NCE SECTION 11           | 1.0 OF THIS RE          | PORT                             |
| B-F                     | Pressure Retaining<br>Dissimilar Metal Welds                            | 38                      | 22 2/3                   | 59.63%                  | No                               |
| B-G-1                   | Pressure Retaining Bolting<br>Greater than 2 " in<br>Diameter           | 242                     | 159                      | 65.70%                  | No                               |
| B-G-2                   | Pressure Retaining Bolting<br>2" and Less in Diameter                   | 31                      | 20                       | 64.51%                  | No                               |

### Class 1 Inspections

## (Continued)

| Examination<br>Category | Description  | Inspections<br>Required | Inspections<br>Completed | Percentage<br>Completed | <sup>8</sup> Deferral<br>Allowed |
|-------------------------|--|-------------------------|--------------------------|-------------------------|----------------------------------|
| В-Н                     | Integral Attachment for<br>Vessels   | 12                      | 8                        | 66.66%                  | No                               |
| B-J                     | Pressure Retaining Welds in Piping   | 229                     | 151                      | 65.93%                  | No                               |
| B-K-1                   | Integral Attachments for<br>Piping, Pumps and Valves   | N/A                     | N/A                      | N/A                     | No                               |
| B-L-1                   | Pressure Retaining Welds in Pump Casings   | N/A                     | N/A                      | N/A                     | Yes                              |
| B-L-2                   | Pump Casings   | 1                       | 1                        | 100%                    | Yes                              |
| B-M-1                   | Pressure Retaining<br>Welds in Valve Bodies  | N/A                     | N/A                      | N/A                     | Yes                              |
| B-M-2                   | Valve Body > 4 in.<br>Nominal Pipe Size  | 7                       | 4                        | 57.14%                  | Yes                              |
| B-N-1                   | Interior of Reactor Vessel   | 3                       | 2                        | 66.66%                  | No                               |
| B-N-2                   | Integrally Welded Core<br>Support Structures and<br>Interior Attachments to<br>Reactor Vessels | 2                       | 0                        | 0                       | Yes                              |
| B-N-3                   | Removable Core Support<br>Structures   | 1                       | 0                        | 0                       | Yes                              |
| B-0                     | Pressure Retaining Welds in Control Rod Housings   | 3                       | 2                        | 66.66%                  | Yes                              |

#### Class 1 Inspections (Continued)

| Examination<br>Category | Description  | Inspections<br>Required | Inspections<br>Completed | Percentage<br>Completed | <sup>8</sup> Deferral<br>Allowed |
|-------------------------|--|-------------------------|--------------------------|-------------------------|----------------------------------|
| В-Р                     | All Pressure Retaining<br>Components               | REFERE                  | NCE SECTION 1            | 1.0 OF THIS RE          | PORT                             |
| B-Q                     | Steam Generator <sup>7</sup> Tubing                | N/A                     | N/A                      | N/A                     | N/A                              |
| F-A<br>F01.010          | Class 1 Component<br>Supports<br>(Code Case N-491) | 67                      | 44                       | 65.67%                  | No                               |

Steam Generator Tubing is examined and documented by the Steam Generator Maintenance Group of the Station Support Division as required by the Station Technical Specifications and is not included in this report.

<sup>&</sup>lt;sup>8</sup> Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB and IWC 2500-1

### Class 2 Inspections

| Examination<br>Category | Description   | Inspections<br>Required               | Inspections<br>Completed | Percentage<br>Completed | <sup>6</sup> Deferral<br>Allowed |  |
|-------------------------|---|---------------------------------------|--------------------------|-------------------------|----------------------------------|--|
| C-A                     | Pressure Retaining Welds in Pressure Vessels                                      | 23                                    | 13                       | *56.52%                 | No                               |  |
| С-В                     | Pressure Retaining Nozzle<br>Welds in Vessels                                     | 18                                    | 11                       | 61.11%                  | No                               |  |
| C-C                     | Integral Attachments for<br>Vessels, Piping, Pumps<br>and Valves                  | 9                                     | 5                        | 55.55%                  | No                               |  |
| C-D                     | Pressure Retaining Bolting<br>Greater Than 2" in<br>Diameter                      | N/A                                   | N/A                      | N/A                     | N/A                              |  |
| C-F-1                   | Pressure Retaining Welds<br>in Austenitic Stainless<br>Steel or High Alloy Piping | 222                                   | 145                      | 65.31%                  | No                               |  |
| C-F-2                   | Pressure Retaining Welds<br>in Carbon or Low Alloy<br>Steel Piping                | 51                                    | 30                       | 58.82%                  | No                               |  |
| C-G                     | Pressure Retaining Welds in Pumps and Valves                                      | 8                                     | 5                        | 62.50%                  | No                               |  |
| С-Н                     | All Pressure Retaining<br>Components  | REFERENCE SECTION 11.0 OF THIS REPORT |                          |                         |                                  |  |
| F-A<br>F01.020          | Class 2 Component<br>Supports<br>(Code Case N-491)                                | 189                                   | 112                      | 59.25%                  | No                               |  |

<sup>\*</sup> Reference Request for Relief 98-002 and 98-003

### Additional Component Support Examinations Class 1, 2 & 3

| Examination<br>Category | Description   | Inspections<br>Required | Inspections<br>Completed | Percentage<br>Completed | <sup>8</sup> Deferral<br>Allowed |
|-------------------------|---|-------------------------|--------------------------|-------------------------|----------------------------------|
| F-A<br>F01.040          | Supports other than Piping<br>Supports Class 1, 2 & 3 | 39                      | 20                       | 51.28%                  | No                               |
| F01.050                 | Component Supports,<br>Snubbers Class 1, 2 & 3        |                         |                          |                         | No                               |

<sup>&</sup>lt;sup>6</sup> Deferral of inspection to the end of the interval as allowed by ASME Section XI Tables IWB-2500-1 and IWC-2500-1.

#### **Augmented Inspections**

| Description   | Percentage Complete                      |
|---|--|
| Reactor Coolant Pump Flywheels (Item No. Series G01.) | 100% of requirements for Outage 5/EOC 12 |
| Pipe Rupture Protection (Item No. Series G03.)        | 62.50% through Outage 5/EOC 12           |

<sup>\*</sup> Examinations to be performed per Request for Relief 97-005

#### 4.0 Final Inservice Inspection Plan

The final ISI Plan shown in this section lists all ASME Section XI Class 1 and ASME Section XI Class 2, and Augmented examinations credited for Outage 5 /EOC 12 at McGuire Nuclear Station Unit 1.

The information shown below is a field description for the reporting format included in this section of the report:

Item Number = ASME Section XI Tables IWB-2500-1

(Class 1), IWC-2500-1 (Class 2), IWF-2500-1

(Class 1 and Class 2), Augmented

Requirements

ID Number = Unique Identification Number

Iso / Dwg. Numbers = Location and/or Detail Drawings

Proc = Examination Procedures

Insp Req. = Examination Technique - Magnetic Particle,

Dye Penetrant, etc.

Mat / Sch. = General Description of Material

Diam. / Thick = Diameter/Thickness

Cal Blocks = Calibration Block Number

Comments = General and/or Detail Description

EOC 12

## CATEGORY B-B, Pressure Retaining Welds in Vessels Other Than Reactor Vessels

## DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Pressurizer

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| Inservice | Inspection | Plan for | Interval | 2 | Outage 5 |
|-----------|------------|----------|----------|---|----------|
|-----------|------------|----------|----------|---|----------|

| ITEM NUMBER                 | R ID NUMBER               | ISO/DWG NUMBERS                    | PROC               | INSP REQ | MAT/SCH | DIATHK CA       | L BLOCKS | COMMENTS   |
|-----------------------------|---------------------------|------------------------------------|--------------------|----------|---------|-----------------|----------|--|
| **** Shell-to-              | Head Welds; Circumf       | ferential ****                     |                    |          |         |                 |          |  |
| B02.011.001<br>Class A      | 1PZR-1<br>Dircumferential | MCM 1201.01-170<br>MCM 1201.01-171 | NDE-620<br>NDE-640 | UT       | CS      | 91.500<br>3.750 | 50337    | PRESSURIZER LOWER HEAD TO SHELL<br>CIRCUMFERENTIAL WELD<br>INSP. PER 1980 CODE (IWB-2420B). (OUT 1,<br>NDE-621, 641) |
| B02.011.002<br>C<br>Class A | 1PZR-5<br>Circumferential | MCM 1201.01-170<br>MCM 1201.01-171 | NDE-620<br>NDE-640 | UT       | CS      | 91.500<br>3.750 | 50337    | PRESSURIZER UPPER HEAD TO SHELL<br>CIRCUMFERENTIAL WELD<br>INSP. PER 1980 CODE (1WB2420B) (OUT 2,<br>NDE-621, 641)   |

Total B02.011 Items:

2

Total B02 Items:

2

#### CATEGORY B-D, Full Penetration Welds of

Steam Generators (Primary Side)

Nozzels in Vessels

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

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|    | Inservice  | Inspection                       | Plan f | or | nterval | 2 | Outage 5 |  |
|----|--|----------------------------------|--------|----|---------|---|----------|--|
| 12 | All commences and the commences of the c | The second section of the second |        |    |         |   |          |  |

| ITEM NUMB              | BER ID NUMBER                  | ISO/DWG NUMBERS  | PROC    | INSP REQ | MAT/SCH | DIA/THK C      | AL BLOCKS | COMMENTS  |
|------------------------|--------------------------------|------------------|---------|----------|---------|----------------|-----------|---|
| **** Nozzle            | e Inside Radius Sectio         | n ****           |         |          |         |                |           |   |
| B03.140.005<br>Class A | 1SGC-INLET<br>Circumferential  | MCM 1201.01-0782 | NDE-680 | UT       | CS      | 0.000<br>6.500 | 5131617   | STEAM GENERATOR 1C<br>PRIMARY INLET NOZZLE RADIUSED SECTION<br>REFERENCE 1MNS-077 |
| B03.140.006<br>Class A | 1SGC-OUTLET<br>Circumferential | MCM 1201.01-0782 | NDE-680 | UT       | CS      | 0.000<br>6.500 | 5131617   | STEAM GENERATOR 1C PRIMARY OUTLET NOZZLE RADIUSED SECTION REFERENCE 1MNS-077      |

Total B03.140 Items:

2

Total B03 Items:

Steam Generators

Total B06.100 Items:

Total B06 Items:

8

8

#### CATEGORY B-G-1, Pressure Retaining Bolting, Greater than 2" In Diameter

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

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|                   | Inservice I | nspection Pl | an for Interval 2 Outage 5         |  |
|-------------------|-------------|--------------|------------------------------------|--|
| ISO/DWG NI IMPEDS | PPOC        | INCD DEO     | MATICOU DIATUR CAL BLOCKS COMMENTS |  |

| ITEM NUMBER            | ID NUMBER           | ISO/DWG NUMBERS       | PROC   | INSP REQ | MAT/SCH | DIA/THK CAL BLOCKS | COMMENTS   |
|------------------------|---------------------|-----------------------|--------|----------|---------|--------------------|--|
| **** Flange Surf       | face, when connecti | on dissassembled **** |        |          |         |                    |  |
| B06.100.001<br>Class A | 1SGA-MW-X2-Y1       | MCM 1201.01-0791      | QAL-13 | VT-1     | CS      | 0.000              | SG1A PRIMARY MANWAY FLANGE SURFACE<br>X2-Y1 QUADRANT<br>(INLET)        |
| 806.100.002<br>Class A | 1SG.4-MW-X2-Y2      | MCM 1201.01-0791      | QAL-13 | VT-1     | cs      | 0.000              | SG1A PRIMARY MANWAY FLANGE SURFACE<br>X2-Y2 QUADRANT<br>(INLET)        |
| 306.100.005<br>Class A | 1SGB-MW-X1-Y1       | MCM 1201.01-0791      | QAL-13 | VT-1     | CS      | 0.000<br>0.000     | SG1B PRIMARY MANWAY FLANGE SURFACE<br>X1-Y1 QUADRANT                   |
| 306.100.004<br>Class A | 1SGB-MW-X1-Y2       | MCM 1201.01-0791      | QAL-13 | VT-1     | CS      | 0.000<br>0.000     | SG1B PRIMARY MANWAY FLANGE SURFACE<br>X1-Y2 QUADRANT                   |
| 006.100.005<br>Class A | 1SGC-MW-X2-Y1       | MCM 1201.01-0791      | QAL-13 | VT-1     | CS      | 0.000              | SG1C PRIMARY MANWAY FLANGE SURFACE<br>X2-Y1 QUADRANT                   |
| 806.100.006<br>Class A | 1SGC-MW-X2-Y2       | MCM 1201.01-0791      | QAL-13 | VT-1     | cs      | 0.000              | SG1C PRIMARY MANWAY FLANGE SURFACE<br>X2-Y2 QUADRANT                   |
| 306.100.007<br>Class A | 1SGD-MW-X1-Y1       | MCM 1201.01-0791      | QAL-13 | VT-1     | CS      | 0.000              | SG1D PRIMARY MANWAY FLANGE SURFACE<br>X1-Y1 QUADRANT<br>(INLET NOZZLE) |
| 306.100.008<br>Class A | 1SGD-MW-X7-Y2       | MCM 1201.01-0791      | QAL-13 | VT-1     | CS      |                    | SG1D PRIMARY MANWAY FLANGE SURFACE<br>X1-Y2 QUADRANT                   |

Valves

Total B07 Items:

#### CATEGORY B-G-2, Pressure Retaining Bolting, 2" And Less In Diameter

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System

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Inservice Inspection Plan for Interval 2 Outage 5

| ITEM NUMBER      | ID NUMBER        | ISO/DWG NUMBERS  | PROC   | INSP REQ | MAT/SCH | DIA/THK CAL BLOCKS | COMMENTS             |  |
|------------------|------------------|------------------|--------|----------|---------|--------------------|----------------------|--|
| **** Bolts, Stud | s, and Nuts **** |                  |        |          |         |                    |                      |  |
| B07.070.102A     | 1NV-21A          | MCM 1205.06-0136 | QAL-13 | VT-1     | SS      | U.010              | 2" VALVE, MCFI-1NV12 |  |
|                  |                  | MC 1554-1.2      |        |          |         | 0.000              |                      |  |
| Class A          |                  |                  |        |          |         |                    |                      |  |
|                  |                  |                  |        |          |         |                    |                      |  |
| Total B07.070 It | ems: 1           |                  |        |          |         |                    |                      |  |

#### CATEGORY B-J, Pressure Retaining Welds In Piping

#### **DUKE ENERGY CORPORATION** QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

NPS 4 or Larger

Stress weld

Class A

#### McGuire 1

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|              |                       |                 | Inservice ! | nspection P | lan for Inte | erval 2 Outag | e 5    |                          | 09/09/1998 |
|--------------|-----------------------|-----------------|-------------|-------------|--------------|---------------|--------|--------------------------|------------|
| ITEM NUMB    | ER ID NUMBER          | ISO/DWG NUMBERS | PROC        | INSP REQ    | MAT/SCH      | DIA/THK CAL   | BLOCKS | COMMENTS                 |            |
| **** Circun  | nferential Welds **** |                 |             |             |              |               |        |                          |            |
| B09.011.049  | 1NCP-224-5            | MCFI-1NC-5      | NDE-600     | UT          | SS           | 6.000         | 50211  | STRESS WELD              |            |
|              | Circumferential       | MC-1503-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Elbow t     | 0            |               |        |                          |            |
|              |                       |                 |             | Pipe        |              |               |        |                          |            |
| B09.011.049/ | A 1NCP-224-5          | MCFI-1NC-5      | NDE-35      | PT          | SS           | 6.000         |        | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Elbow t     | 0            |               |        |                          |            |
|              |                       |                 |             | Pipe        |              |               |        |                          |            |
| B09.011.050  | 1NCP-224-4            | MCFI-1NC-5      | NDE-600     | UT          | SS           | 6.000         | 50211  | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Pipe to     |              |               |        |                          |            |
|              |                       |                 |             | Elbow       |              |               |        |                          |            |
| B09.011.050A | 1NCP-224-4            | MCFI-1NC-5      | NDE-35      | PT          | SS           | 6.000         |        | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Pipe to     |              |               |        |                          |            |
|              |                       |                 |             | Elbow       |              |               |        |                          |            |
| B09.011.051  | 1NCP-224-3            | MCFI-1NC-5      | NDE-600     | UT          | SS           | 6.000         | 50211  | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Elbow to    | 0            |               |        |                          |            |
|              |                       |                 |             | Pipe        |              |               |        |                          |            |
| B09.011.051A | 1NCP-224-3            | MCFI-1NC-5      | NDE-35      | PT          | SS           | 6.000         |        | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Elbow to    | 0            |               |        |                          |            |
|              |                       |                 |             | Pipe        |              |               |        |                          |            |
| B09.011.052  | 1NCP-224-2            | MCFI-1NC-5      | NDE-600     | UT          | SS           | 6.000         | 50211  | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
| Class A      | Stress weld           |                 |             | Pipe to     |              |               |        |                          |            |
|              |                       |                 |             | Elbow       |              |               |        |                          |            |
| B09.011.052A | 1NCP-224-2            | MCFI-1NC-5      | NDE-35      | PT          | SS           | 6.000         |        | STRESS WELD              |            |
|              | Circumferential       | MC-1553-2.0     |             |             | 160          | 0.719         |        | SELECTION CRITERIA 4.2.1 |            |
|              |                       |                 |             |             |              |               |        |                          |            |

Pipe to

Elbow

### CATEGORY B-J, Pressure Retaining Welds In Piping

DUKE ENERGY CORPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
Inservice Inspection Database Management System

NPS 4 or Larger McGuire 1

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| NPS 4 or     | Larger          |                 |             | McGu         | iire i       |               |        |          | Page 6     |
|--------------|-----------------|-----------------|-------------|--------------|--------------|---------------|--------|----------|------------|
|              |                 |                 | Inservice I | Inspection P | lan for Inte | erval 2 Outag | e 5    |          | 09/09/1998 |
| ITEM NUMBE   | ER ID NUMBER    | ISO/DWG NUMBERS | PROC        | INSP REQ     | MAT/SCH      | DIA/THK CAL   | BLOCKS | COMMENTS |            |
| B09.011.104  | 1ND1F-240       | MCFI 1ND-38     | NDE-600     | UT           | SS           | 14.000        | 50213  |          |            |
|              | Circumferential | MC 1561-1.0     |             |              | 140          | 1.250         |        |          |            |
| Class A      |                 |                 |             | Elbow t      | 0            |               |        |          |            |
|              |                 |                 |             | Pipe         |              |               |        |          |            |
| B09.011.104A | 1ND1F-240       | MCFI 1ND-38     | NDE-35      | PT           | SS           | 14.000        |        |          |            |
|              | Circumferential | MC 1561-1.0     |             |              | 140          | 1.250         |        |          |            |
| Class A      |                 |                 |             | Elbow to     | 0            |               |        |          |            |
|              |                 |                 |             | Pipe         |              |               |        |          |            |
| B09.011.217  | 1NI-457-1       | MCFI-1NI-79     | NDE-600     | UT           | SS           | 10.000        | 50209  |          |            |
|              | Circumferential | MC-1562-2.0     |             |              | 140          | 1.000         |        |          |            |
| Class A      |                 |                 |             | Elbow to     | 0            |               |        |          |            |
|              |                 |                 |             | Pipe         |              |               |        |          |            |
| B09.011.217A | 1NI-457-1       | MCFI-1NI-79     | NDE-35      | PT           | SS           | 10.000        |        |          |            |
|              | Circumferential | MC-1562-2.0     |             |              | 140          | 1.000         |        |          |            |
| Class A      |                 |                 |             | Elbow to     | 0            |               |        |          |            |
|              |                 |                 |             | Pipe         |              |               |        |          |            |
| B09.011.221  | 1NI-185-1       | MCFI-1NI-84     | NDE-600     | UT           | SS           | 6.000         | 50211  |          |            |
|              | Circumferential | MC-1562-3.1     |             |              | 160          | 0.719         |        |          |            |
| Class A      |                 |                 |             | Elbow to     | 0            |               |        |          |            |
|              |                 |                 |             | Pipe         |              |               |        |          |            |
| B09.011.221A | 1NI-185-1       | MCFI-1NI-84     | NDE-35      | PT           | SS           | 6.000         |        |          |            |
|              | Circumferential | MC-1562-3.1     |             |              | 160          | 0.719         |        |          |            |
| Class A      |                 |                 |             | Elbow to     | 0            |               |        |          |            |
|              |                 |                 |             | Pipe         |              |               |        |          |            |
| B09.011.222  | 1NI-185-2       | MCFI-1NI-84     | NDE-600     | UT           | SS           | 6.000         | 50211  |          |            |
|              | Circumferential | MC-1562-3.1     |             |              | 160          | 0.719         |        |          |            |
| Class A      |                 |                 |             | Pipe to      |              |               |        |          |            |
|              |                 |                 |             | Elbow        |              |               |        |          |            |
| B09.011.222A | 1NI-185-2       | MCFI-1NI-84     | NDE-35      | PT           | SS           | 6.000         |        |          |            |
|              | Circumferential | MC-1562-3.1     |             |              |              | 0.719         |        |          |            |
| Class A      |                 |                 |             | Pipe to      |              |               |        |          |            |
|              |                 |                 |             | Elbow        |              |               |        |          |            |
|              |                 |                 |             |              |              |               |        |          |            |

EOC 12 **DUKE ENERGY CORPORATION** CATEGORY B-J, Pressure Retaining Welds in **QUALITY ASSURANCE TECHNICAL SERVICES** Piping Inservice Inspection Database Management System Plan Report McGuire 1 Page 7 NPS 4 or Larger 09/09/1998 Inservice Inspection Plan for Interval 2 Outage 5 INSPIREQ MAT/SCH DIA/THK CAL BLOCKS ITEM NUMBER ID NUMBER ISO/DWG NUMBERS PROC COMMENTS B09.011.223 1NI-185-3 MCFI-1NI-84 NDE-600 UT SS 6.000 50211 160 0.719 Circumferential MC-1562-3.1 Class A Elbow to Pipe B09.011.223A 1NI-185-3 MCFI-1NI-84 NDE-35 SS 6.000

Elbow to

Pipe

160

0.719

Total B09.011 Items:

Class A

Circumferential

18

MC-1562-3.1

### CATEGORY B-J, Pressure Retaining Welds In Piping

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Less Than NPS 4

McGuire 1

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| Inservice | Inspection | Plan for | Interval 2 | Outage 5 |
|-----------|------------|----------|------------|----------|
|-----------|------------|----------|------------|----------|

| ITEM NUMBI  | ER ID NUMBER          | ISO/DWG NUMBERS  | PROC   | INSP REQ | MAT/SCH   | DIA/THK CAL BLOCKS | COMMENTS               |
|-------------|-----------------------|------------------|--------|----------|-----------|--------------------|------------------------|
| **** Circum | nferential Welds **** |                  |        |          |           |                    |                        |
| 809.021.009 | 1NC1F-1374            | MCFI-1NC-34      | NDE-35 | PT       | SS        | 3.000              |                        |
|             | Circumferential       | MC-1553-1.0      |        |          | 160       | 0.438              |                        |
| Class A     |                       |                  |        | Nozzie   | to        |                    |                        |
|             |                       |                  |        | Pipe     |           |                    |                        |
| 309.021.017 | 1NC1F4-9A             | MC-1676-4.1      | NDE-35 | PT       | SS        | 3.000              | CROSSOVER 1D CAP (4-9) |
|             | Circumferential       | MCM 1201.011-511 |        |          | 160       | 0.438              |                        |
| Class A     |                       |                  |        | Pipe to  |           |                    |                        |
|             |                       |                  |        | RTD BY   | PASS RETU | RN CA              |                        |

Total B09.021 Items:

### CATEGORY B-J, Pressure Retaining Welds In Piping

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Branch Pipe Connection Welds

Total B09.032 Items:

3

McGuire 1

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|               |              |                    | Inservice I | nspection P | lan for Inte | erval 2 Outag | e 5    |                              | 09/09/1998 |
|---------------|--------------|--------------------|-------------|-------------|--------------|---------------|--------|------------------------------|------------|
| ITEM NUMBER   | ID NUMBER    | ISO/DWG NUMBERS    | PROC        | INSP REQ    | MAT/SCH      | DIA/THK CAL   | BLOCKS | COMMENTS                     |            |
| **** NPS 4 or | Larger ****  |                    |             |             |              |               |        |                              |            |
| B09.031.007   | 1NC52-WN6    | MCFI-1NC-52        | NDE-610     | UT          | SS           | 14.000        | 50214  | RHR PUMP LOOP 3              |            |
| Br            | ranch        | MCM 1201.01-119/7  |             |             | 140          | 1.250         |        | PC.B TO PC.1                 |            |
| Class A       |              |                    |             | LOOP 3      | PC.B to      |               |        | UT FROM MAIN LOOP SIDE ONLY  |            |
|               |              |                    |             | LOOP 3      | PC.1 (3-3)   |               |        |                              |            |
| B09.031.007A  | 1NC52-WN6    | MCFI-1NC-52        | NDE-35      | PT          | SS           | 14.000        |        |                              |            |
| Br            | ranch        | MCM 1201.01-119/7  |             |             | 140          | 1.250         |        |                              |            |
| Class A       |              |                    |             | LOOP 3      | PC.B to      |               |        |                              |            |
|               |              |                    |             | LOOP 3      | PC.1 (3-3)   |               |        |                              |            |
| Total B09.031 | I Items: 2   |                    |             |             |              |               |        |                              |            |
| **** Less Tha | n NPS 4 **** |                    |             |             |              |               |        |                              |            |
| B09.032.017   | 1NC23-WN7    | MCFI-1NC-23        | NDE-35      | PT          | SS           | 3.000         |        | RTD BYPASS LOOP 4            |            |
| Br            | ranch        | MCM 1201.01-119/11 |             |             |              | 0.438         |        | PC. C TO PC. 2               |            |
| Class A       |              |                    |             | LOOP 4      | PC.C to      |               |        |                              |            |
|               |              |                    |             | LOOP 4      | PC.2 (4-9)   |               |        |                              |            |
| B09.032.018   | 1NC24-WN7    | MCFI-1NC-24        | NDE-35      | PT          | SS           | 3.000         | *****  | RTD BYPASS LOOP 3            |            |
| Br            | ranch        | MCM 1201.01-119/8  |             |             |              | 0.438         |        | PC. C TO PC. 2               |            |
| Class A       |              |                    |             | LOOP 3      | PC.C to      |               |        |                              |            |
|               |              |                    |             | PC.2 (3-    | -14)         |               |        |                              |            |
| B09.032.019   | 1NC33-WN7    | MCFI-1NC-33        | NDE-35      | PT          | SS           | 3.000         |        | REACTOR DRAIN & LETDOWN LOOF | 3          |
| Br            | anch         | MCM 1201.01-119/8  |             |             |              | 0.438         |        | PC. D TO PC. 2               |            |
| Class A       |              |                    |             | LOOP 3      | PC.D to      |               |        |                              |            |
|               |              |                    |             | PC.2 (3-    | -4)          |               |        |                              |            |
|               |              |                    |             |             |              |               |        |                              |            |

### CATEGORY B-J, Pressure Retaining Welds In Piping

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Socket Welds

#### McGuire 1

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Inservice Inspection Plan for Interval 2 Outage 5

| ITEM NUMB   | ER             | ID NUMBER  | ISO/DWG NUMBERS | PROC   | INSP REQ | MAT/SCH | DIA/THK CAL BLO | CKS COMMENTS_            |
|-------------|----------------|------------|-----------------|--------|----------|---------|-----------------|--------------------------|
| B09.040.002 |                | 1NC1F-285  | MCFI-1NC-3      | NDE-35 | PT       | SS      | 2.000           |                          |
|             | Socket         |            | MC-1553-1.0     |        |          | 160     | 0.344           |                          |
| Class A     |                |            |                 |        | Pipe to  |         |                 |                          |
|             |                |            |                 |        | Valve    |         |                 |                          |
| 309.040.004 |                | 1NC1F-970  | MCFI-1NC-22     | NDE-35 | PT       | SS      | 2.000           |                          |
|             | Socket         |            | MC-1553-1.0     |        |          | 160     | 0.344           |                          |
| Class A     |                |            |                 |        | Nozzle   | to      |                 |                          |
|             |                |            |                 |        | Pipe     |         |                 |                          |
| 09.040.007  |                | 1NC1F-1322 | MCFI-1NC-32     | NDE-35 | PT       | SS      | 2.000           |                          |
|             | Socket         |            | MC-1553-1.0     |        |          | 160     | 0.344           |                          |
| Class A     |                |            |                 |        | Nozzle   | to      |                 |                          |
|             |                |            |                 |        | Pipe     |         |                 |                          |
| 09.040.015  |                | 1NC1F-1612 | MCFI-1NC-44     | NDE-35 | PT       | SS      | 1.500           | STRESS WELD              |
|             | Socket         |            | MC-1553-1.0     |        |          | 160     | 0.281           | SELECTION CRITERIS 4.2.1 |
| Class A     | Stress v       | weld       |                 |        | Valve to | 0       |                 |                          |
|             |                |            |                 |        | Pipe     |         |                 |                          |
| 809.040.016 |                | 1NC1F-1613 | MCFI-1NC-44     | NDE-35 | PT       | SS      | 1.500           | STRESS WELD              |
|             | Socket         |            | MC-1553-1.0     |        |          |         | 0.281           | SELECTION CRITERIS 4.2.1 |
| Class A     | Stress v       | veld       |                 |        | Pipe to  |         |                 |                          |
|             |                |            |                 |        | SWEEP    | OLET    |                 |                          |
| 09.040.017  |                | 1NC1F-1614 | MCFI-1NC-44     | NDE-35 | PT       | SS      | 1.500           | STRESS WELD              |
|             |                |            | MC-1553-1.0     |        |          |         | 0.281           | SELECTION CRITERIS 4.2.1 |
| Class A     | Stress v       | veld       |                 |        | Valve to |         |                 |                          |
|             |                |            |                 |        | Pipe     |         |                 |                          |
| 09.040.113  |                | 1NI1F-638  | MCFI-1NI-64     | NDE-35 | PT       | SS      | 1.500           | STRESS WELD              |
|             | Socket         |            | MC-1562-1.0     |        |          | 160     | 0.281           | SELECTION CRITERIA 4.2.2 |
| Class A     |                |            |                 |        | ripe to  |         |                 |                          |
|             |                |            |                 |        | Valve    |         |                 |                          |
| 09.040.115  | ************** | 1NI1F-647  | MCFI-1NI-64     | NDE-35 | PT       | SS      | 1.500           | STRESS WELD              |
|             | Socket         |            | MC-1562-1.0     |        |          |         | 0.281           | SELECTIOM CRITERIA 4.2.2 |
| Class A     |                |            |                 |        | Pipe to  |         | 0.201           | 71011 01111 1111 116116  |
| 0.00071     | 0110001        |            |                 |        | Valve    |         |                 |                          |

CATEGORY B-J, Pressure Retaining Welds In **Piping** 

DUKE ENERGY CORPORATION **QUALITY ASSURANCE TECHNICAL SERVICES** 

Inservice Inspection Database Management System

Socket Welds

McGuire 1

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| Inservice | Inspection | Plan | for | interval | 2 | Outage 5 |  |
|-----------|------------|------|-----|----------|---|----------|--|
|-----------|------------|------|-----|----------|---|----------|--|

| ITEM NUMBER | ID NUMBER  | ISO/DWG NUMBERS | PROC   | INSP REQ        | MAT/SCH      | DIA/THK CAL BLOCKS | COMMENTS                 |  |
|-------------|------------|-----------------|--------|-----------------|--------------|--------------------|--------------------------|--|
| B09.040.206 | 1NV1F-889  | MCFI-1NV-25     | NDE-35 | PT              | SS           | 1.500              | STRESS WELD              |  |
| Sc          | ocket      | MC-1554-1.0     |        |                 | 160          | 0.281              | SELECTIOM CRITERIA 4.2.3 |  |
| Class A St  | tress weld |                 |        | Reducin<br>Pipe | ig Insert to |                    |                          |  |

Total B09.040 Items:

Total B09 Items:

#### **CATEGORY B-Q. Steam Generator Tubing**

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Steam Generator Tubing in U-Tube Design

#### McGuire 1

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Inservice Inspection Plan for Interval 2 Outage 5

| ITELANUADED | 10 111111050 |                 |      |          |         | . rui z outugo o   |  |
|-------------|--------------|-----------------|------|----------|---------|--------------------|--|
| ITEM NUMBER | ID NUMBER    | ISO/DWG NUMBERS | PROC | INSP REQ | MAT/SCH | DIA/THK CAL BLOCKS | COMMENTS                               |
| **** ****   |              |                 |      |          |         |                    |  |
| B16.020.001 | 1SGA-TUBES   | MCM 1201.01-135 |      | ET       | Inconel | 0.750              | INFO ON S/G TUBE EXAMS CAN BE ACQUIRED |
|             |              | MCM 1201.01-187 |      |          |         | 0.043              | FROM THE STEAM GENERATOR MAINTENANCE   |
| Class A     |              |                 |      |          |         |                    | GROUP/NSD OF DPC                       |
| B16.020.002 | 1SGB-TUBES   | MCM 1201.01-136 |      | ET       | Inconel | 0.750              | INFO ON S/G TUBE EXAMS CAN BE ACQUIRED |
|             |              | MCM 1201.01-187 |      |          |         | 0.043              | FROM THE STEAM GENERATOR MAINTENANCE   |
| Class A     |              |                 |      |          |         |                    | GROUP/NSD OF DPC                       |
| B16.020.003 | 1SGC-TUBES   | MCM 1201.01-137 |      | ET       | Inconel | 0.750              | INFO ON S/G TUBE EXAMS CAN BE ACQUIRED |
|             |              | MCM 1201.01-187 |      |          |         | 0.043              | FROM THE STEAM GENERATOR MAINTENANCT   |
| Class A     |              |                 |      |          |         |                    | GROUP/NSD OF DPC                       |
| B16.020.004 | 1SGD-TUBES   | MCM 1201.01-138 |      | ET       | inconel | 0.750              | INFO ON S/G TUBE EXAMS CAN BE ACQUIRED |
|             |              | MCM 1201.01-187 |      |          |         | 0.043              | FROM THE STEAM GENERATOR MAINTENANCE   |
| Class A     |              |                 |      |          |         |                    | GROUP/NSD OF DPC                       |
|             |              |                 |      |          |         |                    |  |

Total B16.020 Items:

4

Total B16 Items:

#### CATEGORY C-A, Pressure Retaining Welds In Pressure Vessels

### QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

**DUKE ENERGY CORPORATION** 

Head Circumferential Welds

McGuire 1

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Inservice Inspection Plan for Interval 2 Outage 5

| ITEM NUMB              | ER ID N                  | UMBER | ISO/DWG NUMBERS | PROC    | INSP REQ | MAT/SCH | DIA/THK CAI     | BLOCKS | COMMENTS   |        |
|------------------------|--------------------------|-------|-----------------|---------|----------|---------|-----------------|--------|--|--------|
| C01.020.070            | 5141-1<br>Circumferentia |       | MCM 1201.06-54  | NDE-600 | UT       | SS      | 10.920<br>1.075 | 50428  | REGENERATIVE HEAT EXC. ANGER<br>BELT TO HEAD (SHELL 1)<br>TO BE DONE FROM SHELL SIDE | NOZZLE |
| C01.020.071<br>Class B | 5141-1<br>Circumferentia |       | MCM 1201.06-54  | NDE-600 | UT       | SS      | 10.920<br>1.075 | 50428  | REGENERATIVE HEAT EXCHANGER<br>SHELL TO HEAD (SHELL 1)<br>TO BE DONE FROM SHELL SIDE |        |

Total C01.020 items:

#### **CATEGORY C-A, Pressure Retaining Welds**

In Pressure Vessels

Tubesheet-to-Shell Weld

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

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| Inservice | Inspection | Plan | for | Interval | 2 | Outage ! | 5 |
|-----------|------------|------|-----|----------|---|----------|---|
|-----------|------------|------|-----|----------|---|----------|---|

| ITEM NUMBER                     | ID NUMBER                   | ISO/DWG NUMBERS | PROC    | INSP REQ | MAT/SCH | DIA/THK CA      | AL BLOCKS | COMMENTS  |
|---------------------------------|-----------------------------|-----------------|---------|----------|---------|-----------------|-----------|---|
| C01.030.020<br>Circu<br>Class B | 5141-1-NB-TS<br>imferential | MCM 1201.06-54  | NDE-600 | UT       | SS      | 10.920<br>1.075 | 50428     | REGENERATIVE HEAT EXCHANGER NOZZLE BELT TO TUBESHEET(SHELL 1) |
| C01.030.021<br>Circu<br>Class B | 5141-1-TS-SH<br>imferential | MCM 1201.06-54  | NDE-600 | UT       | SS      | 10.920<br>1.075 | 50428     | REGENERATIVE HEAT EXCHANGER TUBESHEET TO SHELL (SHELL 1)      |

Total C01.030 Items:

2

Total C01 Items:

#### CATEGORY C-F-1, Pressure Retaining Welds In Austenitic SS or High Alloy Piping

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Piping Welds >= 3/8 in. Nominal Wall Thickness

McGuire 1

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| Outage 5 |
|----------|
| . 0      |

| ITEM NUMBER                     | ID NUMBER                | ISO/DWG NUMBERS           |         |                    |             | CH DIA/THK CA   | Control of the contro | COMMENTS |
|---------------------------------|--------------------------|---------------------------|---------|--------------------|-------------|-----------------|--|----------|
| **** Circumfer                  | rential Weld ****        |                           |         |                    |             |                 |  |          |
| C05.011.014<br>Circ<br>Class B  |                          | MCFI 1ND31<br>MC 1561-1.0 | NDE-600 | UT<br>Pipe to      | STD         | 12.000<br>0.375 | 50313  |          |
|                                 |                          |                           |         | Elbow              |             |                 |  |          |
| C05.011.014A<br>Circ<br>Class B | 1ND1F154<br>cumferential | MCFI 1ND31<br>MC 1561-1.0 | NDE-35  | PT Pipe to Elbow   | STD         | 12.000<br>0.375 |  |          |
| C05.011.036                     | 1ND1F93                  | MCFI 1ND30                | NDE-600 | UT                 |             | 14.000          |  |          |
| Class B                         | cumferential             | MC 1561-1.0               |         | Pipe to            |             | 1.250           |  |          |
| Oldoo D                         |                          |                           |         |                    | netration M | 1314            |  |          |
| C05.011.036A                    |                          | MCFI 1ND30                | NDE-35  | PT                 | SS          | 14.000          |  |          |
| Class B                         | cumferential             | MC 1561-1.0               |         | Pipe to<br>Pipe Pe | netration M | 1.250           |  |          |
| 005.011.038                     | 1ND70B-1                 | MCFI 1ND31                | NDE-600 | UT                 |             | 12.000          | 50433  |          |
|                                 | cumferential             | MC 1561-1.0               |         |                    | 80          | 0.688           |  |          |
| Class B                         |                          |                           |         | Flange<br>Pipe     | to          |                 |  |          |
| 05.011.038A                     | 1ND70B-1                 | MCFI 1ND31                | NDE-35  | PT                 | SS          | 12.000          |  |          |
| Circ<br>Class B                 | cumferential             | MC 1561-1.0               |         | Flange<br>Pipe     | 80<br>to    | 0.688           |  |          |
| 005.011.041                     | 1ND69-2                  | MCFI 1ND31                | NDE-600 | UT                 | SS          | 12.000          | 50313  |          |
|                                 | cumferential             | MC 1561-1.0               |         |                    | STD         | 0.375           |  |          |
| Class B                         |                          |                           |         | Pipe to<br>Elbow   |             |                 |  |          |
| C05.011.041A                    | 1ND69-2                  | MCFI 1ND31                | NDE-35  | PT                 |             | 12.000          |  |          |
| Circ<br>Class B                 | cumferential             | MC 1561-1.0               |         | Pipe to<br>Elbow   | STD         | 0.375           |  |          |

#### CATEGORY C-F-1, Pressure Retaining Welds In Austenitic SS or High Alloy Piping

### DUKE ENERGY CORPORATION GUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Piping Welds >= 3/8 in. Nominal Wall Thickness

McGuire 1

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|  | g > NPS 4       |                 |         | The second secon |        | terval 2 Outag |          |          | 09/09/1998 |
|--|-----------------|-----------------|---------|--|--------|----------------|----------|----------|------------|
| AND REAL PROPERTY OF THE PROPE |                 | ISO/DWG NUMBERS | PROC    | INSP REQ   | MAT/SC | H DIATHK CA    | L BLOCKS | COMMENTS |            |
| C05.011.042  | 1ND69-3         | MCFI 1ND31      | NDE-600 | UT   | SS     | 12.000         | 50313    |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | STD    | 0.375          |          |          |            |
| Class B  |                 |                 |         | Elbow  | to     |                |          |          |            |
|  |                 |                 |         | Pipe   |        |                |          |          |            |
| C05.011.042A   | 1ND69-3         | MCFI 1ND31      | NDE-35  | PT   | SS     | 12.000         |          |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | STD    | 0.375          |          |          |            |
| Class B  |                 |                 |         | Elbow 1  | to     |                |          |          |            |
|  |                 |                 |         | Pipe   |        |                |          |          |            |
| C05.011.045  | 1ND69A-2        | MCFI 1ND31      | NDE-600 | UT   | SS     | 12.000         | 50313    |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | STD    | 0.375          |          |          |            |
| Class B  |                 |                 |         | Pipe to  |        |                |          |          |            |
|  |                 |                 |         | Elbow  |        |                |          |          |            |
| C05.011.045A   | 1ND69A-2        | MCFI 1ND31      | NDE-35  | PT   | SS     | 12.000         |          |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | STD    | 0.375          |          |          |            |
| Class B  |                 |                 |         | Pipe to  |        |                |          |          |            |
|  |                 |                 |         | Elbow  |        |                |          |          |            |
| C05.011.047  | 1ND69A-4        | MCFI 1ND31      | NDE-600 | UT   | SS     | 12.000         | 50313    |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | STD    | 0.375          |          |          |            |
| Class B  |                 |                 |         | Elbow t  | 0      |                |          |          |            |
|  |                 |                 |         | Pipe   |        |                |          |          |            |
| C05.011.047A   | 1ND69A-4        | MCFI 1ND31      | NDE-35  | PT   | SS     | 12.000         |          |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | STD    | 0.375          |          |          |            |
| Class B  |                 |                 |         | Elbow t  | 0      |                |          |          |            |
|  |                 |                 |         | Pipe   |        |                |          |          |            |
| C05.011.049  | 1ND1F96         | MCFI 1ND32      | NDE-600 | UT   | SS     | 8.000          | 50210    |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | 160    | 0.906          | 30210    |          |            |
| Class B  |                 |                 |         | Valve to   |        | 0.000          |          |          |            |
| 3.000  |                 |                 |         | Pipe   |        |                |          |          |            |
| C05.011.049A   | 1ND1F96         | MCFI 1ND32      | NDE-35  | PT   | SS     | 8.000          |          |          |            |
|  | Circumferential | MC 1561-1.0     |         |  | 160    | 0.906          |          |          |            |
| Class B  |                 |                 |         | Valve to   |        | 0.000          |          |          |            |
| Jidoo D  |                 |                 |         | Pipe   |        |                |          |          |            |

#### CATEGORY C-F-1, Pressure Retaining Welds In Austenitic SS or High Alloy Piping

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management Lystem

Piping Welds >= 3/8 in. Nominal Wall Thickness

McGuire 1

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| for Pipin    | g > NPS 4       |                 | Inservice I | nspection P | Plan for Inte | rval ? Outag | e 5    |          | 09/09/1998 |
|--------------|-----------------|-----------------|-------------|-------------|---------------|--------------|--------|----------|------------|
|              |                 | ISO/DWG NUMBERS | PROC        | INSP REQ    | MAT/SCH       | DIAN HK CAI  | BLOCKS | COMMENTS |            |
| C05.011.101  | 1NI125-2        | MCFI 1NI-53     | NDE-600     | UT          | SS            | 12.000       | 50434  |          |            |
|              | Circumferential | MC 1562-3.0     |             |             | 140           | 1.250        |        |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |        |          |            |
|              |                 |                 |             | Reduce      | r             |              |        |          |            |
| C05.011.101A | 25-2            | MCFI 1NI-53     | NDE-35      | PT          | SS            | 12.000       |        |          |            |
|              | Circum erential | MC 1562-3.0     |             |             | 140           | 1.250        |        |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |        |          |            |
|              |                 |                 |             | Reduce      | r             |              |        |          |            |
| C05.011.144  | 1NI177-2        | MCFI-1NI85      | NDE-600     | UT          | SS            | 6.000        | 50211  |          |            |
|              | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |        |          |            |
| Class B      |                 |                 |             | Elbow t     | to            |              |        |          |            |
|              |                 |                 |             | Pipe        |               |              |        |          |            |
| C05.011.144A | 1NI177-2        | MCFI-1NI85      | NDE-35      | PT          | SS            | 6.000        |        |          |            |
|              | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |        |          |            |
| Class B      |                 |                 |             | Elbow t     | 0             |              |        |          |            |
|              |                 |                 |             | Pipe        |               |              |        |          |            |
| C05.011.147  | 1NI176-3        | MCFI-1NI-85     | NDE-600     | UT          | SS            | 6.000        | 50211  |          |            |
| (            | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |        |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |        |          |            |
|              |                 |                 |             | Elbow       |               |              |        |          |            |
| C05.011.147A | 1NI176-3        | MCFI-1NI-85     | NDE-35      | PT          | SS            | 6.000        |        |          |            |
| (            | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |        |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |        |          |            |
|              |                 |                 |             | Elbow       |               |              |        |          |            |
| C05.011.148  | 1NI1F-260A      | MCFI-1NI-85     | NDE-600     | UT          | SS            | 6.000        | 50211  |          |            |
| (            | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |        |          |            |
| Class B      |                 |                 |             | Elbow to    | 0             |              |        |          |            |
|              |                 |                 |             | Pipe        |               |              |        |          |            |
| C05.011.148A | 1NI1F-260A      | MCFI-1NI-85     | NDE-35      | PT          | SS            | 6.000        |        |          |            |
|              | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |        |          |            |
| Class B      |                 |                 |             | Elbow to    | 0             |              |        |          |            |
|              |                 |                 |             | Pipe        |               |              |        |          |            |

Total C05.011 Items:

### In Austenitic SS or High Alloy Piping Inservice

# DUKE ENERGY CORPORATION GUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Piping Welds >= 3/8 in. Nominal Wall Thickness

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| for Pipin    | g > NPS 4       |                 | Inservice I | nspection F | Plan for Inte | rval 2 Outag | e 5   |          | 09/09/1998 |
|--------------|-----------------|-----------------|-------------|-------------|---------------|--------------|-------|----------|------------|
| ITEM NUMBE   | ER ID NUMBER    | ISO/DWG NUMBERS | PROC        |             |               | DIA/THK CAL  |       | COMMENTS |            |
| C05.011.150  | 1NI177-3        | MCFI-1NI-85     | NDE-600     | UT          | SS            | 6.000        | 50211 |          |            |
|              | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |       |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |       |          |            |
|              |                 |                 |             | Elbow       |               |              |       |          |            |
| C05.011.150A | 1NI177-3        | MCFI-1NI-85     | NDE-35      | PT          | SS            | 6.000        |       |          |            |
|              | Circumferential | MC-1562-3.1     |             |             | 160           | 0.719        |       |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |       |          |            |
|              |                 |                 |             | Elbow       |               |              |       |          |            |
| C05.011.200  | 1NS1F-1878      | MCFI-1NS-20     | NDE-600     | UT          | SS            | 8.000        | 50210 |          |            |
|              | Circumferential | MC 1563-1.0     |             |             | 160           | 0.906        |       |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |       |          |            |
|              |                 |                 |             | Elbow       |               |              |       |          |            |
| C05.011.200A | 1NS1F-1878      | MCFI-1NS-20     | NDE-35      | PT          | SS            | 8.000        |       |          |            |
|              | Circumferential | MC 1563-1.0     |             |             | 160           | 0.906        |       |          |            |
| Class B      |                 |                 |             | Pipe to     |               |              |       |          |            |
|              |                 |                 |             | Elbow       |               |              |       |          |            |
| C05.011.201  | 1NS1F-1877      | MCFI-1NS-20     | NDE-600     | UT          | SS            | 8.000        | 50210 |          |            |
| (            | Circumferential | MC 1563-1.0     |             |             | 160           | 0.906        |       |          |            |
| Class B      |                 |                 |             | Elbow t     | 0             |              |       |          |            |
|              |                 |                 |             | Pipe        |               |              |       |          |            |
| C05.011.201A | 1NS1F-1877      | MCFI-1NS-20     | NDE-35      | PT          | SS            | 8.000        |       |          |            |
| (            | Circumferential | MC 1563-1.0     |             |             | 160           | 0.906        |       |          |            |
| Class B      |                 |                 |             | Elbov .     | U             |              |       |          |            |
|              |                 |                 |             | Pipe        |               |              |       |          |            |

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#### CATEGORY C-F-1, Pressure Retaining Welds In Austenitic SS or High Alloy Piping

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

Piping Welds > 1/5 in. Nom Wall For Piping >= NPS 2 And <= NPS 4

Inservice Inspection Plan for Interval 2 Outage 5

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| NPS 2 AI     | nd <= NPS 4         |                 | Inservice | inspection i | lan for In | iterval 2 Outag | ge 5     |          | 03/03/1330 |
|--------------|---------------------|-----------------|-----------|--------------|------------|-----------------|----------|----------|------------|
| ITEM NUMBE   | ER ID NUMBER        | ISO/DWG NUMBERS | PROC      | INSP REQ     | MAT/SC     | H DIATHK CA     | L BLOCKS | COMMENTS |            |
| **** Circum  | ferential Weld **** |                 |           |              |            |                 |          |          |            |
| C05.021.065  | 1NV25B-2            | MCFI-1NV-11     | NDE-600   | UT           | SS         | 3.000           | 50225    |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              |            | 0.438           |          |          |            |
| Class B      |                     |                 |           |              |            |                 |          |          |            |
| C05.021.065A | 1NV25B-2            | MCFI-1NV-11     | NDE-35    | PT           | SS         | 3.000           |          |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              |            | 0.438           |          |          |            |
| Class B      |                     |                 |           |              |            |                 |          |          |            |
| C05.021.066  | 1NV1F-4817          | MCFI-1NV-11     | NDE-600   | UT           | SS         | 3.000           | 50225    |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              |            | 0.438           |          |          |            |
| Class B      |                     |                 |           |              |            |                 |          |          |            |
| C05.021.066A | 1NV1F-4817          | MCFI-1NV-11     | NDE-35    | PT           | SS         | 3.000           |          |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              |            | 0.438           |          |          |            |
| Class B      |                     |                 |           |              |            |                 |          |          |            |
| C05.021.067  | 1NV1F-2473          | MCFI-1NV-11     | NDE-600   | UT           | SS         | 3.000           | 50225    |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              |            | 0.438           |          |          |            |
| Class B      |                     |                 |           |              |            |                 |          |          |            |
| C05.021.067A | 1NV1F-2473          | MCFI-1NV-11     | NDE-35    | PT           | SS         | 3.000           |          |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              |            | 0.438           |          |          |            |
| Class B      |                     |                 |           |              |            |                 |          |          |            |
| C05.021.068  | 1NV77-4             | MCFI-1NV-13     | NDE-600   | UT           | SS         | 3.000           | 50225    |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              | 160        | 0.438           |          |          |            |
| Class B      |                     |                 |           | Tee to       |            |                 |          |          |            |
|              |                     |                 |           | Reduce       | r          |                 |          |          |            |
| C05.021.068A | 1NV77-4             | MCFI-1NV-13     | NDE-35    | PT           |            | 3.000           |          |          |            |
|              | Circumferential     | MC-1554-3.1     |           |              | 160        | 0.438           |          |          |            |
| Class B      |                     |                 |           | Tee to       |            |                 |          |          |            |
|              |                     |                 |           | Reduce       |            |                 |          |          |            |

CATEGORY C-F-1, Pressure Retaining Welds In Austenitic SS or High Alloy Piping

**DUKE ENERGY CORPORATION** QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

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| Piping          | Welds | > 1/5 | in. | Nom | Wall | For | Piping | >= |
|-----------------|-------|-------|-----|-----|------|-----|--------|----|
| Contract to the |       |       |     |     |      |     |        |    |

| NPS 2 And    | <= NPS 4     |                 | Inservice I | nspection P | lan for Inte | rval 2 Outa | ge 5      |          | 09/09/1998 |
|--------------|--------------|-----------------|-------------|-------------|--------------|-------------|-----------|----------|------------|
| ITEM NUMBER  | ID NUMBER    | ISO/DWG NUMBERS | PROC        | INSP REQ    | MAT/SCH      | DIA/THK CA  | AL BLOCKS | COMMENTS |            |
| C05.021.069  | 1NV77-3      | MCFI-1NV-13     | NDE-600     | UT          | SS           | 3.000       | 50225     |          |            |
| Circ         | cumferential | MC-1554-3.1     |             |             | 160          | 0.438       |           |          |            |
| Class B      |              |                 |             | Pipe to     |              |             |           |          |            |
|              |              |                 |             | Reduce      | r            |             |           |          |            |
| C05.021.069A | 1NV77-3      | MCFI-1NV-13     | NDE-35      | PT          | SS           | 3.000       |           |          |            |
| Circ         | cumferential | MC-1554-3.1     |             |             | 160          | 0.438       |           |          |            |
| Class B      |              | Pipe to         |             |             |              |             |           |          |            |
|              |              |                 |             | Reduce      | r            |             |           |          |            |
|              |              |                 |             |             |              |             |           |          |            |

Total C05.021 Items:

#### CATEGORY C-F-1, Pressure Retaining Welds In Austenitic SS or High Alloy Piping

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Socket Welds

Total C05.030 Items:

McGuire 1

Inservice Inspection Plan for Interval 2 Outage 5

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|             |              |                 |        |          |          | avai 2 Outage 5    |          |  |
|-------------|--------------|-----------------|--------|----------|----------|--------------------|----------|--|
| ITEM NUMBER | ID NUMBER    | ISO/DWG NUMBERS | PROC   | INSP REQ | MAT/SCH  | DIA/THK CAL BLOCKS | COMMENTS |  |
| C05.030.079 | 1NV1F181-182 | MCFI-1NV-149    | NDE-35 | PT       | SS       | 2.000              |          |  |
|             |              | MC-1554-1.0     |        |          | 160      | 0.344              |          |  |
| Class B     |              |                 |        | Pipe to  |          |                    |          |  |
|             |              |                 |        | Full Cou | pling    |                    |          |  |
| C05.030.080 | 1NV185-2     | MCFI-1NV-149    | NDE-35 | PT       | SS       | 2.000              |          |  |
|             |              | MC-1554-1.0     |        |          | 160      | 0.344              |          |  |
| Class B     |              |                 |        | Tee to   |          |                    |          |  |
|             |              |                 |        | Pipe     |          |                    |          |  |
| C05.030.081 | 1NV1FW172-10 | MCFI-1NV-172    | NDE-35 | PT       | SS       | 2.000              |          |  |
|             |              | MC-1554-3.0     |        |          | 160      | 0.344              |          |  |
| Class B     |              |                 |        | Pipe to  |          |                    |          |  |
|             |              |                 |        | Valve    |          |                    |          |  |
| C05.030.082 | 1NV1FW172-13 | MCFI-1NV-172    | NDE-35 | PT       | SS       | 2.000              |          |  |
|             |              | MC-1554-3.0     |        |          |          | 0.344              |          |  |
| Class B     |              |                 |        | Elbow t  | 0        |                    |          |  |
|             |              |                 |        | Pipe     |          |                    |          |  |
| C05.030.083 | 1NV1F-2299   | MCFI-1NV-173    | NDE-35 | PT       | SS       | 2.000              |          |  |
|             |              | MC-1554-3.0     |        |          | 160      | 0.344              |          |  |
| Class B     |              |                 |        | Valve to | )        |                    |          |  |
|             |              |                 |        | Pipe     |          |                    |          |  |
| C05.030.084 | 1NV1FW173-20 | MCFI-1NV-173    | NDE-35 | PT       | SS       | 2.000              |          |  |
|             |              | MC-1554-3.0     |        |          | 160      | 0.344              |          |  |
| Class B     |              |                 |        | Tee to   |          |                    |          |  |
|             |              |                 |        | Reducin  | g Insert |                    |          |  |

#### CATEGORY C-F-2, Pressure Retaining Welds In Carbon Or Low Alloy Steel Piping

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Piping Welds >= 3/8 in. Nominal Wall Thickness
for Piping > NPS 4

McGuire 1
Inservice Inspection Plan for Interval 2 Outage 5

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| ITEM NI IMPED | ID NUMBER        | ISO/DWG NUMBERS |         |          |         | DIA TUK CAL |        | COMMENTO |
|---------------|------------------|-----------------|---------|----------|---------|-------------|--------|----------|
| ****          |                  | 130/DWG NUMBERS | PHUC    | INSP HEQ | MAT/SCH | DIA/THK CAL | BLUCKS | COMMENTS |
|               | ential Weld **** |                 |         |          |         |             |        |          |
| C05.051.015   |                  | MCFI-1CA19      | NDE-600 | UT       | CS      | 6.000       | 50331  |          |
| Circ          | umferential      | MC-1592-1.0     |         |          | 80      | 0.432       |        |          |
| Class B       |                  |                 |         | Elbow t  | 10      |             |        |          |
|               |                  |                 |         | Pipe     |         |             |        |          |
| C05.051.015A  | 1CA1F758         | MCFI-1CA19      | NDE-25  | MT       | CS      | 6.000       |        |          |
| Circ          | umferential      | MC-1592-1.0     |         |          | 80      | 0.432       |        |          |
| Class B       |                  |                 |         | Elbow t  | 0       |             |        |          |
|               |                  |                 |         | Pipe     |         |             |        |          |
| 005.051.054   | 1CF1F-601        | MCFI-1CF-8      | NDE-600 | UT       | CS      | 6.000       | 50331  |          |
| Circ          | umferential      | MC 1591-1.1     |         |          | 80      | 0.432       |        |          |
| Class B       |                  |                 |         | Tee to   |         |             |        |          |
|               |                  |                 |         | Pipe     |         |             |        |          |
| C05.051.054A  | 1CF1F-601        | MCFI-1CF-8      | NDE-25  | MT       | CS      | 6.000       |        |          |
| Circ          | umferential      | MC 1591-1.1     |         |          | 80      | 0.432       |        |          |
| Class B       |                  |                 |         | Tee to   |         |             |        |          |
|               |                  |                 |         | Pipe     |         |             |        |          |
| 005.051.056   | 1CF1F-647        | MCFI-1CF-8      | NDE-600 | UT       | CS      | 6.000       | 50331  |          |
| Circ          | umferential      | MC 1591-1.1     |         |          | 80      | 0.432       |        |          |
| Class B       |                  |                 |         | Elbow to | 0       |             |        |          |
|               |                  |                 |         | Valve    |         |             |        |          |
| C05.051.056A  | 1CF1F-647        | MCFI-1CF-8      | NDE-25  | MT       | CS      | 6.000       |        |          |
| Circ          | umferential      | MC 1591-1.1     |         |          | 80      | 0.432       |        |          |
| Class B       |                  |                 |         | Elbow to | 0       |             |        |          |
|               |                  |                 |         | Valve    |         |             |        |          |
| 05.051.059    | 1CF-125-A        | MCFI-1CF-4      | NDE-600 | UT       | CS      | 18.000      | 50330  |          |
| Circ          | umferential      | MC 1591-1.1     |         |          | 80      | 0.938       |        |          |
| Class B       |                  |                 |         | Pipe to  |         |             |        |          |
|               |                  |                 |         | Elbow    |         |             |        |          |
| C05.051.059A  | 1CF-125-A        | MCFI-1CF-4      | NDE-25  | MT       | CS      | 18.000      |        |          |
|               | umferential      | MC 1591-1.1     |         |          | 80      | 0.938       |        |          |
| Class B       |                  |                 |         | Pipe to  |         |             |        |          |
|               |                  |                 |         | Elbow    |         |             |        |          |

Total C05 Items:

62

#### CATEGORY C-F-2, Pressure Retaining Welds In Carbon Or Low Alloy Steel Piping

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Piping Welds >= 3/8 in. Nominal Wall Thickness

McGuire 1

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| for Piping   | g > NPS 4       |                 | Inservice Inspection Plan for Interval 2 Outage 5 |          |         |             |        |          |  |  |  |  |
|--------------|-----------------|-----------------|---|----------|---------|-------------|--------|----------|--|--|--|--|
| ITEM NUMBE   | R ID NUMBER     | ISO/DWG NUMBERS | PROC  | INSP REQ | MAT/SCH | DIA/THK CAL | BLOCKS | COMMENTS |  |  |  |  |
| C05.051.150  | 1SA1F-219       | MCFI 1SA-4      | NDE-600   | UT       | CS      | 6.000       | 50331  |          |  |  |  |  |
| (            | Circumferential | MC 1593-1.2     |   |          | 80      | 0.432       |        |          |  |  |  |  |
| Class B      |                 |                 |   | Elbow to | 0       |             |        |          |  |  |  |  |
|              |                 |                 |   | Valve    |         |             |        |          |  |  |  |  |
| C05.051.150A | 1SA1F-219       | MCFI 1SA-4      | NDE-25  | MT       | CS      | 6.000       |        |          |  |  |  |  |
| (            | Circumferential | MC 1593-1.2     |   |          | 80      | 0.432       |        |          |  |  |  |  |
| Class B      |                 |                 |   | Elbow to | 0       |             |        |          |  |  |  |  |
|              |                 |                 |   | Valve    |         |             |        |          |  |  |  |  |
| C05.051.203  | 1SM1F-420       | MCFI-1SM14      | NDE-600   | UT       | CS      | 6.000       | 50331  |          |  |  |  |  |
| (            | Circumferential | MC 1593-1.0     |   |          |         | 0.432       |        |          |  |  |  |  |
| Class B      |                 |                 |   |          |         |             |        |          |  |  |  |  |
| C05.051.203A | 1SM1F-420       | MCFI-1SM14      | NDE-25  | MT       | CS      | 6.000       |        |          |  |  |  |  |
| (            | Circumferential | MC 1593-1.0     |   |          |         | 0.432       |        |          |  |  |  |  |
| Class B      |                 |                 |   |          |         |             |        |          |  |  |  |  |
| C05.051.300  | 1VP1F-13        | MCFI 1VP-1      | NDE-600   | UT       | CS      | 24.000      | 50442  |          |  |  |  |  |
| (            | Circumferential | MC 1576-1       |   |          | STD     | 0.438       |        |          |  |  |  |  |
| Class B      |                 |                 |   | Valve to |         |             |        |          |  |  |  |  |
|              |                 |                 |   | Pipe     |         |             |        |          |  |  |  |  |
| C05.051.300A | 1VP1F-13        | MCFI 1VP-1      | NDE-25  | MT       | CS      | 24.000      |        |          |  |  |  |  |
| (            | Circumferential | MC 1576-1       |   |          | STD     | 0.438       |        |          |  |  |  |  |
| Class B      |                 |                 |   | Valve to |         |             |        |          |  |  |  |  |
|              |                 |                 |   | Pipe     |         |             |        |          |  |  |  |  |
| C05.051.301  | 1VP1F-1         | MCFI 1VP-1      | NDE-600   | UT       | CS      | 12.000      | 50443  |          |  |  |  |  |
| (            | Circumferential | MC 1576-1       |   |          | 40      | 0.406       |        |          |  |  |  |  |
| Class B      |                 |                 |   | Pipe to  |         |             |        |          |  |  |  |  |
|              |                 |                 |   | Valve    |         |             |        |          |  |  |  |  |
| C05.051.301A | 1VP1F-1         | MCFI 1VP-1      | NDE-25  | МТ       | CS      | 12.000      |        |          |  |  |  |  |
| (            | Circumferential | MC 1576-1       |   |          | 40      | 0.406       |        |          |  |  |  |  |
| Class B      |                 |                 |   | Pipe to  |         |             |        |          |  |  |  |  |
|              |                 |                 |   | Valve    |         |             |        |          |  |  |  |  |
| Total C05.05 | 51 Items: 16    |                 |   |          |         |             |        |          |  |  |  |  |
|              |                 |                 |   |          |         |             |        |          |  |  |  |  |

#### **CATEGORY C-G, Pressure Retaining Welds** In Pumps And Valves

#### **DUKE ENERGY CORPORATION** QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Valves

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|                 |            |                                    | Inservice | Inspection P | lan for Inte | rval 2 Outage 5    |                                | 09/09/1998 |
|-----------------|------------|------------------------------------|-----------|--------------|--------------|--------------------|--------------------------------|------------|
| ITEM NUMBER     | ID NUMBER  | ISO/DWG NUMBERS                    | PROC      | INSP REQ     | MAT/SCH      | DIA/THK CAL BLOCKS | COMMENTS                       |            |
| **** Valve Body | Welds **** |                                    |           |              |              |                    |                                |            |
| C06.020.005A    | 1NV-240-1  | MCM 1205.00-1186.001<br>MCFI-1NV13 | NDE-35    | PT           | SS           | 3.000<br>0.000     | VALVE BODY TO SEAT RING INSERT |            |
| Class B         |            |                                    |           |              |              |                    |                                |            |
| C06.020.005B    | 1NV-240-2  | MCM 1205.00-1186.001               | NDE-35    | PT           | SS           | 3.000              | VALVE BODY TO SEAT RING INSERT |            |
|                 |            | MCFI-1NV13                         |           |              |              | 0.000              |                                |            |
| C06.020.005C    | 1NV-242-1  | MCM 1205.00-1186.001               | NDE-35    | PT           | SS           | 3.000              | VALVE BODY TO SEAT RING INSERT |            |
|                 |            | MCFI-1NV13                         |           |              |              | 0.000              |                                |            |
| C06.020.005D    | 1NV-242-2  | MCM 1205.00-1186.001               | NDE-35    | PT           | SS           | 3.000              | VALVE BODY TO SEAT RING INSERT |            |
|                 |            | MCFI-1NV13                         |           |              |              | 0.000              |                                |            |
|                 |            |                                    |           |              |              |                    |                                |            |

Total C06.020 Items:

4

Total C06 Items:

### CATEGORY D-B, Systems in Support Of ECC, CHR, Atmos. Cleanup, And Reactor RHR

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

Integral Attachment

Inservice Inspection Plan for Interval 2 Outage 5

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| ITEM NUMB              | ER ID NUMBER                  | ISO/DWG NUMBERS |        |      |    | DIA/THK CAL BLOCKS | COMMENTS |  |
|------------------------|-------------------------------|-----------------|--------|------|----|--------------------|----------|--|
| **** Compo             | onent Supports and Res        | straints ****   |        |      |    |                    |          |  |
| 002.020.006<br>Class C | 1-MCA-CA-10                   | MCSRD-CAF       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
|                        | 1-MCA-CA-13<br>Rigid Support  | MCSRD-CAF       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
| 002.020.008<br>Class C | 1-MCA-CA-151<br>Rigid Support | MCSRD-CAO       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
| D02.020.009            | 1-MCA-CA-153<br>Rigid Support | MCSRD-CAO       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
|                        | 1-MCA-CA-181<br>Rigid Support | MCSRD-CAO       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
|                        | 1-MCA-CA-2<br>Rigid Support   | MCSRD-CAF       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
| 002.020.012<br>Class C | 1-MCA-CA-207<br>Rigid Support | MCSRD-CAF       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |
| D02.020.013            | 1-MCA-CA-211<br>Rigid Support | MCSRD-CAF       | QAL-14 | VT-3 | NA | 4.000<br>0.000     |          |  |

Class C

### CATEGORY D-B, Systems In Support Of ECC, CHR, Atmos. Cleanup, And Reactor RHR

#### **DUKE ENERGY CORPORATION** QUALITY ASSURANCE TECHNICAL SERVICES inservice Inspection Database Management System

| Integral Attachment McGuire 1 |                               |                 |           |              |              |                      |          | Plan Report<br>Page 26 |
|-------------------------------|-------------------------------|-----------------|-----------|--------------|--------------|----------------------|----------|------------------------|
|                               |                               |                 | Inservice | Inspection P | Plan for Int | terval 2 Outage 5    |          | 09/09/1998             |
| ITEM NUMB                     | ER ID NUMBER                  | ISO/DWG NUMBERS |           |              |              | H DIA/THK CAL BLOCKS | COMMENTS |                        |
| D02.020.014<br>Class C        | 1-MCA-CA-212<br>Rigid Support | MCSRD-CAE       | QAL-14    | VT-3         | NA           | 4.000<br>0.000       |          |                        |
| D02.020.015                   | 1-MCA-CA-278<br>Rigid Support | MCSRD-CAA       | QAL-14    | VT-3         | NA           | 4.000<br>0.000       |          |                        |
| D02.020.016                   | 1-MCA-CA-296<br>Rigid Support | MCSRD-CAE       | QAL-14    | VT-3         | NA           | 4.000<br>0.000       |          |                        |
| D02.020.017<br>Class C        | 1-MCA-CA-297<br>Rigid Support | MCSRD-CAE       | QAL-14    | VT-3         | NA           | 4.000<br>0.000       |          |                        |
| D02.020.018                   | 1-MCA-CA-299<br>Rigid Support | MCSRD-CAE       | QAL-14    | VT-3         | NA           | 4.000<br>0.600       |          |                        |
| D02.020.019                   | 1-MCA-CA-301<br>Rigid Support | MCSRD-CAE       | QAL-14    | VT-3         | NA           | 4.000<br>0.000       |          |                        |
| D02.020.020<br>Class C        | 1-MCA-CA-305<br>Rigid Support | MCSRD-CAF       | QAL-14    | VT-3         | NA           | 4.000<br>0.125       |          |                        |
| D02.020.021                   | 1-MCA-CA-309<br>Rigid Support | MCSRD-CAF       | QAL-14    | VT-3         | NA           | 4.000<br>0.000       |          |                        |

Integral Attachment

Total D02.020 Items:

23

### CATEGORY D-B, Systems In Support Of ECC, CHR, Atmos. Cleanup, And Reactor RHR

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

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| integral               | Attachment                      |                 |             | mode         |              |                    |          | rage zi    |
|------------------------|---------------------------------|-----------------|-------------|--------------|--------------|--------------------|----------|------------|
|                        |                                 |                 | Inservice ! | Inspection P | lan for Inte | rval 2 Outage 5    |          | 09/09/1998 |
| ITEM NUMBI             | ER ID NUMBER                    | ISO/DWG NUMBERS |             |              |              | DIA/THK CAL BLOCKS | COMMENTS |            |
|                        | 1-MCA-CA-312<br>Rigid Support   | MCSPD-CAF       | QAL-14      | VT-3         | NA           | 4.000<br>0.000     |          |            |
| D02.020.024            | 1-MCA-CA-319<br>Rigid Support   | MCSRD-CAF       | QAL-14      | VT-3         | NA           | 4.000<br>0.000     |          |            |
| D02.020.025            | 1-MCA-CA-378<br>Rigid Support   | MCSRD-CAJ       | QAL-14      | VT-3         | NA           | 8.000<br>0.000     |          |            |
| D02.020.026<br>Class C | 1-MCA-CA-4<br>Rigid Support     | MCSRD-CAE       | QAL-14      | VT-3         | NA           | 4.000<br>0.000     |          |            |
| D02.020.027            | 1-MCA-CA-42<br>Rigid Support    | MCSRD-CAE       | QAL-14      | VT-3         | NA           | 4.000<br>0.000     |          |            |
| D02.020.035            | 1-MCA-CA-274<br>Rigid Support   | MCSRD-CAA       | QAL-14      | VT-3         | NA           | 4.000<br>0.000     |          |            |
| D02.020.036<br>Class C | 1-MCA-CA-275<br>Rigid Restraint | MCSRD-CAA       | QAL-14      | VT-3         | NA           | 4.000<br>0.000     |          |            |
|                        |                                 |                 |             |              |              |                    |          |            |

#### CATEGORY D-B, Systems In Support Of ECC, CHR, Atmos. Cleanup, And Reactor RHR

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

McGuire 1

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| Integral Attachment | McGuire 1   |
|---------------------|---|
|                     | Inservice Inspection Plan for Interval 2 Outage 5 |

|             |                    |                 | inservice | inspection P | ian for inte | ervai 2 Outage 5   |          | 03/03/1330 |
|-------------|--------------------|-----------------|-----------|--------------|--------------|--------------------|----------|------------|
| ITEM NUMBE  | ER ID NUMBER       | ISO/DWG NUMBERS | PROC      | INSP REQ     | MAT/SCH      | DIA/THK CAL BLOCKS | COMMENTS |            |
| **** Spring | Type Supports **** |                 |           |              |              |                    |          |            |
| D02.040.001 | 1-MCA-CA-84        | MCSRD-CAJ       | QAL-14    | VT-3         | NA           | 8.000              |          |            |
| Class C     | Spring Hgr         |                 |           |              |              | 0.000              |          |            |
| D02.040.002 | 1-MCA-CA-168       | MCSRD-CAM       | QAL-14    | VT-3         | NA           | 4.000              |          |            |
|             | Spring Hgr         |                 |           |              |              | 0.500              |          |            |
| Class C     |                    |                 |           |              |              |                    |          |            |

Total D02.040 Items:

2

Total D02 Items:

#### CATEGORY F-A, Supports (Category A)

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

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#### Class 1 Piping Supports

Inservice Inspection Plan for Interval 2 Outage 5

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| ID NUMBER     | ISO/DWG NUMBERS  | PROC  | INSP REQ   | MAT/SCH  | DIA/THK CAL BLOCKS  | COMMENTS  |   |
|---------------|--|---|--|--|---|-----------|---|
| 1-MCR-NC-577  | MCSRD WL-002   | QAL-14  | VT-3   | NA   | 2.000   |           |   |
|               |  |   |  |  | 0.000   |           |   |
| 1-MCR-NC-687  | MCSRDNC-002  | QAL-14  | VT-3   | NA   | 6.000   |           |   |
| Snubber       |  |   |  |  | 0.000   |           |   |
| 1-MCR-ND-510  | MCSRD ND-001   | QAL-14  | VT-3   | NA   | 14.000  |           |   |
|               |  |   |  |  | 0.000   |           |   |
| 1-MCR-NI-577  | MCSRD NI-003   | QAL-14  | VT-3   | NA   | 10.000  |           |   |
|               |  |   |  |  | 0.000   |           |   |
| 1-MCR-NI-585  | MCSRD NI-003   | QAL-14  | VT-3   | NA   | 6.000   |           |   |
| h Snubber     |  |   |  |  | 0.000   |           |   |
| 1-MCR-NV-1067 | MCSRD NV-004   | QAL-14  | VT-3   | NA   | 2.000   |           |   |
| Snubber       |  |   |  |  | 0.000   |           |   |
|               | 1-MCR-NC-577  1-MCR-NC-687 Snubber  1-MCR-ND-510  1-MCR-NI-577  1-MCR-NI-585 n Snubber | 1-MCR-NC-577 MCSRD WL-002  1-MCR-NC-687 MCSRDNC-002  1-MCR-ND-510 MCSRD ND-001  1-MCR-NI-577 MCSRD NI-003  1-MCR-NI-585 MCSRD NI-003  1-MCR-NI-585 MCSRD NI-003 | 1-MCR-NC-577 MCSRD WL-002 QAL-14  1-MCR-NC-687 MCSRDNC-002 QAL-14  1-MCR-ND-510 MCSRD ND-001 QAL-14  1-MCR-NI-577 MCSRD NI-003 QAL-14  1-MCR-NI-585 MCSRD NI-003 QAL-14  1-MCR-NI-585 MCSRD NI-003 QAL-14  1-MCR-NV-1067 MCSRD NV-004 QAL-14 | 1-MCR-NC-577 MCSRD WL-002 QAL-14 VT-3  1-MCR-NC-687 MCSRDNC-002 QAL-14 VT-3  1-MCR-ND-510 MCSRD ND-001 QAL-14 VT-3  1-MCR-NI-577 MCSRD NI-003 QAL-14 VT-3  1-MCR-NI-585 MCSRD NI-003 QAL-14 VT-3  1-MCR-NI-585 MCSRD NI-003 QAL-14 VT-3  1-MCR-NI-585 MCSRD NI-003 QAL-14 VT-3 | ID NUMBER         ISO/DWG NUMBERS         PROC         INSP REQ         MAT/SCH           1-MCR-NC-577         MCSRD WL-002         QAL-14         VT-3         NA           1-MCR-NC-687         MCSRDNC-002         QAL-14         VT-3         NA           1-MCR-ND-510         MCSRD ND-001         QAL-14         VT-3         NA           1-MCR-NI-577         MCSRD NI-003         QAL-14         VT-3         NA           1-MCR-NI-585         MCSRD NI-003         QAL-14         VT-3         NA           1-MCR-NV-1067         MCSRD NV-004         QAL-14         VT-3         NA | ID NUMBER | 1-MCR-NC-577 MCSRD WL-002 QAL-14 VT-3 NA 2.000 0.000  1-MCR-NC-687 MCSRDNC-002 QAL-14 VT-3 NA 6.000 Snubber 0.000  1-MCR-ND-510 MCSRD ND-001 QAL-14 VT-3 NA 14.000 0.000  1-MCR-NI-577 MCSRD NI-003 QAL-14 VT-3 NA 10.000 0.000  1-MCR-NI-585 MCSRD NI-003 QAL-14 VT-3 NA 6.000 0.000  1-MCR-NI-585 MCSRD NI-003 QAL-14 VT-3 NA 6.000 0.000 |

### CATEGORY F-A, Supports (Category A)

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Class 2 Piping Supports

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|                               |                             | 09/09/1998      |        |          |         |                    |          |  |
|-------------------------------|-----------------------------|-----------------|--------|----------|---------|--------------------|----------|--|
| ITEM NUMBER                   | ID NUMBER                   | ISO/DWG NUMBERS | PROC   | INSP REQ | MAT/SCH | DIA/THK CAL BLOCKS | COMMENTS |  |
|                               | 1-MCA-ND-260<br>ech Snubber | MCSRD-FWA       | QAL-14 | VT-3     | NA      | 14.000<br>0.000    |          |  |
|                               | 1-MCA-ND-281<br>yd Snubber  | MCSRD-NDA       | QAL-14 | VT-3     | NA      | 8.000<br>0.000     |          |  |
|                               | 1-MCA-ND-295<br>ech Snubber | MCSRD-NDA       | QAL-14 | VT-3     | NA      | 8.000<br>0.000     |          |  |
| F01.020.205A<br>Class B       | 1-MCA-NI-178                | MCSRD-NIB       | QAL-14 | VT-3     | NA      | 4.000<br>0.000     |          |  |
| F01,020,206C<br>Class B       | 1-MCA-NI-179                | MCSRD-NIB       | QAL-14 | VT-3     | NA      | 4.000<br>0.000     |          |  |
| F01.020.207C<br>Me<br>Class B | 1-MCA-NI-357<br>ech Snubber | MCSRD-NIO       | QAL-14 | VT-3     | NA      | 18.000<br>0.000    |          |  |
|                               | 1-MCR-NI-721<br>od Snubber  | MCSRD-NI-011    | QAL-14 | VT-3     | NA      | 2.000<br>0.000     |          |  |
|                               | 1-MCA-NS-098<br>rd Snubber  | MCSRL-NSB       | QAL-14 | VT-3     | NA      | 10.000             |          |  |

Total F01.020 Items:

16

#### CATEGORY F-A, Supports (Category A)

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Plan Report Class 2 Piping Supports McGuire 1 Page 31 Inservice Inspection Plan for Interval 2 Outage 5 09/09/1998 ITEM NUMBER INSPIREQ MAT/SCH DIA/THK CAL BLOCKS ID NUMBER ISO/DWG NUMBERS PROC COMMENTS F01.020.267C 1-MCA-NS-102 MCSRD-NSC QAL-14 VT-3 NA 10.000 Hyd Snubber 0.000 Class B F01.020.2688 1-MCA-NS-103 MCSRD-NSC QAL-14 VT-3 NA 10.000 0.000 Class B F01.020.325A 1-MCA-NV-037 MC 1190-NV-01-02 VT-3 QAL-14 NA 4.000 0.000 Class B F01.020.326B MC 1683-NV-04-R36 MC 1683-NV-04 QAL-14 VT-3 NA 2.000 0.000 Class B F01.020.327B 1-MCA-NV-039 MC 1190-NV-01-01 QAL-14 VT-3 NA 4.000 0.000 Class B F01.020.328A 1-MCA-NV-040 MC-1190-NV-01-01 QAL-14 VT-3 NA 4.000 0.000 Class B F01.020.329A 1-MCA-NV-041 MC 1190-NV-01-03 VT-3 QAL-14 NA 3.000 0.000 Class B F01.020.558C 1-MCA-SM-101 MCSRD-SMA/3 of 5 QAL-14 VT-3 NA 42.000 Mech Snubber 0.000 Class B

#### CATEGORY F-A, Supports (Category A)

#### **DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES** Inservice Inspection Database Management System

#### Class 3 Piping Supports

#### McGuire 1

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|                               |                                |                 |        | 09/09/1998 |        |                       |          |  |
|-------------------------------|--------------------------------|-----------------|--------|------------|--------|-----------------------|----------|--|
| ITEM NUMBER                   | R ID NUMBER                    | ISO/DWG NUMBERS | PROC   | INSP REQ   | MAT/SC | CH DIA/THK CAL BLOCKS | COMMENTS |  |
| F01.030.003C<br>N<br>Class C  | 1-MCA-CA-325<br>Mech Snubber   | MCSRD-CA-152    | QAL-14 | VT-3       | NA     | 8.000<br>0.000        |          |  |
|                               | 1-MCA-CA-84<br>Spring Hgr      | MCSRD-CAJ       | QAL-14 | VT-3       | NA     | 8.000<br>0.125        |          |  |
| F01.030.005C<br>H<br>Class C  | 1-MCA-CA-187<br>lyd Snubber    | MCSRD-CAD       | QAL-14 | VT-3       | NA     | 4.000<br>0.000        |          |  |
| F01.030.006C<br>S<br>Class C  | 1-MCA-CA-168<br>pring Hgr      | MCSRD-CAM       | QAL-14 | VT-3       | NA     | 4.000<br>0.500        |          |  |
|                               | 1-MCA-CA-52<br>pring Hgr       | MCSRD-CAC       | QAL-14 | VT-3       | NA     | 4.000<br>0.000        |          |  |
|                               | 1-MCA-CA-57<br>pring Hgr       | MCSRD-CAC       | QAL-14 | VT-3       | NA     | 4.000<br>0.000        |          |  |
|                               | 1-MCA-CA-274<br>igid Support   | MCSRD-CAA       | QAL-14 | VT-3       | NA     | 4.000<br>0.125        |          |  |
| F01.030.010B<br>Ri<br>Class C | 1-MCA-CA-275<br>igid Restraint | MCSRD-CAA       | QAL-14 | VT-3       | NA     | 4.000<br>0.125        |          |  |

Class C

### CATEGORY F-A, Supports (Category A)

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

| Class 3 Piping Supports  McGuire 1 |                   |                  |           |      |    |  | Plan Report<br>Page 33 |  |
|------------------------------------|-------------------|------------------|-----------|------|----|--|------------------------|--|
| Oldss o Fibili                     | y oupports        |                  | Inservice |      |    | 09/09/1998                               |                        |  |
| ITEM NUMBER                        | ID NUMBER         | ISO/DWG NUMBERS  | PROC      |      |    | nterval 2 Outage 5 CH DIA/THK CAL BLOCKS | COMMENTS               |  |
| F01.030.064B                       | MC 1683-NV-07-R3  |                  | QAL-14    | VT-3 | NA | 2.000<br>0.000                           | OOMINETETS             |  |
| Class C                            |                   |                  |           |      |    |  |                        |  |
| F01.030.065B                       | MC 1683-NV-07-R6  | MC 1683-NV-07    | QAL-14    | VT-3 | NA | 2.000                                    |                        |  |
| Class C                            |                   |                  |           |      |    | 0.000                                    |                        |  |
| F01.030.066A                       | MC 1683-NV-08-R10 | MC 1683-NV-08    | QAL-14    | VT-3 | NA | 2.000                                    |                        |  |
| Class C                            |                   |                  |           |      |    | 0.000                                    |                        |  |
| F01.030.067A                       | MC 1683-NV-08-R13 | MC 1683-NV-08    | QAL-14    | VT-3 | NA | 2.000                                    |                        |  |
| Class C                            |                   |                  |           |      |    | 0.000                                    |                        |  |
|                                    | 1-MCA-KC-1091     | MCSRD-KC-303SHT1 | QAL-14    | VT-3 | NA | 0.000                                    |                        |  |
| Class C                            | Support           | MCFD 1573-01.01  |           |      |    | 0.000                                    |                        |  |
|                                    | 1-MCA-KC-1089     | MCSRD-KC-303SHT2 | QAL-14    | VT-3 | NA | 0.000                                    |                        |  |
| Class C                            | Support           | MCFD 1573-01.01  |           |      |    | 0.000                                    |                        |  |
|                                    | 1-MCA-KC-1006     | MCSRD-KC-305SHT2 | QAL-14    | VT-3 | NA | 0.000                                    |                        |  |
| Class C                            | Support           | MCFD 1573-01-00  |           |      |    | 0.000                                    |                        |  |
|                                    | 1-MCA-KC-2297     | MCSRD-KC-305SHT3 | QAL-14    | VT-3 | NA | 0.000                                    |                        |  |
| Rigid                              | Support           | MCFD 1573-02-00  |           |      |    | 0.000                                    |                        |  |

### CATEGORY F-A, Supports (Category A)

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

| Inservice Inspection Database Management System |               |                  |           |              |        |                    |          | Plan Report |
|---|---------------|------------------|-----------|--------------|--------|--------------------|----------|-------------|
| Class 3 Pip                                     | ing Supports  |                  |           | McGu         | ilre 1 |                    |          | Page 34     |
|   |               |                  | Inservice | Inspection P |        | 09/09/1998         |          |             |
| ITEM NUMBER                                     | ID NUMBER     | ISO/DWG NUMBERS  | PROC      |              |        | DIA/THK CAL BLOCKS | COMMENTS |             |
| F01.030.116A                                    | 1-MCA-KC-H100 | MCSRD-KC-305SHT3 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rig   | id Support    | MCFD 1573-02-00  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.117A                                    | 1-MCA-KC-1005 | MCSRD-KC-305SHT4 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rig   | id Support    | MCFD 1573-01-00  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.118A                                    | 1-MCA-KC-2325 | MCSRD-KC-305SHT4 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rig   | id Support    | MCFD 1573-01-00  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.119A                                    | 1-MCA-KC-2313 | MCSRD-KC-305SHT5 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rig   | id Support    | MCFD 1573-02-00  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.120A                                    | 1-MCA-KC-H80  | MCSRD-KC-311SHT1 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rigi  | d Support     | MCFD 1573-02.02  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.122B                                    | 1-MCA-KC-1015 | MCSRD-KC-302SHT1 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rigi  | d Restraint   | MCFD 1573-01.01  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.123B                                    | 1-MCA-KC-1090 | MCSRD-KC-303SHT1 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rigi  | d Restraint   | MCFD 1573-01.01  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |
| F01.030.124B                                    | 1-MCA-KC-2190 | MCSRD-KC-303SHT1 | QAL-14    | VT-3         | NA     | 0.000              |          |             |
| Rigi  | d Restraint   | MCFD 1573-01.01  |           |              |        | 0.000              |          |             |
| Class C   |               |                  |           |              |        |                    |          |             |

Class C

#### CATEGORY F-A, Supports (Category A)

# DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Plan Report

| Class 3 P    | iping Supports  |                  | McGuire 1  |      |    |                                   |          |  |  |  |  |
|--------------|-----------------|------------------|------------|------|----|-----------------------------------|----------|--|--|--|--|
|              |                 |                  | 09/09/1998 |      |    |                                   |          |  |  |  |  |
| ITEM NUMBE   | R ID NUMBER     | ISO/DWG NUMBERS  | PROC       |      |    | val 2 Outage 5 DIA/THK CAL BLOCKS | COMMENTS |  |  |  |  |
| F01.030.125B | 1-MCA-KC-2134   | MCSRD-KC-304SHT1 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-01.01  |            |      |    | 0.125                             |          |  |  |  |  |
| F01.030.128B | 1-MCA-KC-1034   | MCSRD-KC-311SHT2 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-02.02  |            |      |    | 0.000                             |          |  |  |  |  |
| F01.030.129B | 1-MCA-KC-1027   | MCSRD-KC-311SHT3 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-02.02  |            |      |    | 0.000                             |          |  |  |  |  |
| F01.030.130B | 1-MCA-KC-1043   | MCSRD-KC-313SHT2 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-02.02  |            |      |    | 0.000                             |          |  |  |  |  |
| F01.030.131B | 1-MCA-KC-1030   | MCSRD-KC-313SHT3 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-02.02  |            |      |    | 0.000                             |          |  |  |  |  |
| F01.030.132B | 1-MCA-KC-1009   | MCSRD-KC-315SHT1 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-01.00  |            |      |    | 0.000                             |          |  |  |  |  |
| F01.030.133B | 1-MCA-KC-1007   | MCSRD-KC-315SHT2 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Class C      | Rigid Restraint | MCFD 1573-01.00  |            |      |    | 0.000                             |          |  |  |  |  |
| F01.030.134C | 1-MCA-KC-1102   | MCSRD-KC-315SHT1 | QAL-14     | VT-3 | NA | 0.000                             |          |  |  |  |  |
| Н            | lyd Snubber     | MCFD 1573-01.00  |            |      |    | 0.000                             |          |  |  |  |  |

#### CATEGORY F-A, Supports (Category A)

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

| Inservice Inspection Database Management System |               |                    |   |      |    |                   |          | Plan Report |  |  |
|---|---------------|--------------------|---|------|----|-------------------|----------|-------------|--|--|
| Class 3 Pig                                     |               | Page 36            |   |      |    |                   |          |             |  |  |
|   |               |                    | Inservice Inspection Plan for Interval 2 Outage 5 |      |    |                   |          |             |  |  |
| ITEM NUMBER                                     | ID NUMBER     | ISO/DWG NUMBERS    | PROC  |      |    | IA/THK CAL BLOCKS | COMMENTS |             |  |  |
| F01.030.135C                                    | 1-MCA-KC-2321 | MCSRD-KC-305SHT1   | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
| M   | ech Snubber   | MCFD 1573-01-01    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.136C                                    | 1-MCA-KC-2105 | MCSRD-KC-315SHT2   | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
| Sp  | oring Hgr     | MCFD 1573-01.00    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.150B                                    | 1-MCA-KD-81   | MCSRD-KD-10/SHT.1  | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
| Ri  | gid Restraint | MCFD 1609-01.01    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.151A                                    | 1-MCA-KD-082  | MCSRD-KD-10/SHT.2  | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
| Ri  | gid Support   | MCFD 1609-01.01    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.152C                                    | 1-MCA-KD-083  | MCSRD-KD-10/SHT.2  | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
|   | rd Snubber    | MCFD 1609-01.01    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.153C                                    | 1-MCA-KD-165  | MCSRD-KD-12/SHT.1  | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
|   | oring Hgr     | MCFD 1609-01.01    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.165B                                    | 1-MCA-RN-H939 | MCSRD-CA-152/SHT 1 | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
|   | gid Restraint | MCFD 1574-01.00`   |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |
| F01.030.167B                                    | 1-MCA-RN-H979 | MCSRD-RN-301/SHT.2 | QAL-14  | VT-3 | NA | 0.000             |          |             |  |  |
|   | gid Restraint | MCFD 1574-01.01    |   |      |    | 0.000             |          |             |  |  |
| Class C   |               |                    |   |      |    |                   |          |             |  |  |

#### CATEGORY F-A, Supports (Category A)

### DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

| Inservice Inspection Database Management System  |               |                    |        |            |        |   |          | Plan Report |
|--|---------------|--------------------|--------|------------|--------|---|----------|-------------|
| Class 3 Pipi   | ng Supports   |                    |        | McGu       | aire 1 |   |          | Page 37     |
|  |               |                    |        | 09/09/1998 |        |   |          |             |
| ITEM NUMBER  | ID NUMBER     | ISO/DWG NUMBERS    | PROC   |            |        | nterval 2 Outage 5<br>CH DIA/THK CAL BLOCKS | COMMENTS |             |
| F01.030.168B   | 1-MCA-RN-2024 | MCSRD-RN-301/SHT.3 | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rig  | id Restraint  | MCFD 1574-03.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.169B   | 1-MCA-RN-2330 | MCSRD-RN-301/SHT.4 | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| The second secon | id Restraint  | MCFD 1574-03.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.171B   | 1-MCA-RN-2524 | MCSRD-RN-302       | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rig  | id Restraint  | MCFD 1574-02.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.172B   | 1-MCA-RN-1076 | MCSRD-RN-303/SHT.1 | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rig  | id Restraint  | MCFD 1574-02.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.173B   | 1-MCA-RN-1077 | MCSRD-RN-303/SHT.1 | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rig  | d Restraint   | MCFD 1574-02.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.183B   | 1-MCA-RN-1131 | MCSRD-RN-310/SHT 1 | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rigi   | d Restraint   | MCFD 1574-01.01    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.220A   | 1-MCA-WN-H29  | MCSRD-WNB/SHT. 1   | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rigi   | d Support     | MCFD 1609-07.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |
| F01.030.221B   | 1-MCA-WN-H64  | MCSRD-WNB/SHT. 3   | QAL-14 | VT-3       | NA     | 0.000                                       |          |             |
| Rigi   | d Restraint   | MCFD 1609-07.00    |        |            |        | 0.000                                       |          |             |
| Class C  |               |                    |        |            |        |   |          |             |

### CATEGORY F-A, Supports (Category A)

## DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice inspection Database Management System

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| Class 3 Pipi | ng Supports  |                   |           | McGu         | ire 1      |                       |          | Plan Heport<br>Page 38 |
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|              |              |                   | Inservice | Inspection P | lan for In | terval 2 Outage 5     |          | 09/09/1998             |
| ITEM NUMBER  | ID NUMBER    | ISO/DWG NUMBERS   | PROC      | INSP REQ     | MAT/SC     | CH DIA/THK CAL BLOCKS | COMMENTS |                        |
| F01.030.222B | 1-MCA-WN-H66 | MCSRD-WNB/SHT. 3  | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Rigi         | d Restraint  | MCFD 1609-07.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.223C | 1-MCA-WN-H25 | MCSRD-WNC/SHT. 1  | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Spri         | ng Hgr       | MCFD 1609-07.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.230A | 1-MCA-YC-003 | MCSRD-YC-301/SHT2 | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Rigio        | d Support    | MCFD 1618-01.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.231A | 1-MCA-YC-028 | MCSRD-YC-302/SHT1 | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Rigio        | d Support    | MCFD 1618-01.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.232A | 1-MCA-YC-040 | MCSRD-YC-302/SHT2 | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Rigio        | d Support    | MCFD 1618-01.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.233B | 1-MCA-YC-169 | MCSRD-YC-304/SHT1 | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Rigio        | d Restraint  | MCFD 1618-01.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.234B | 1-MCA-YC-114 | MCSRD-YC-305/SHT1 | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Rigio        | d Restraint  | MCFD 1618-01.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |
| F01.030.235C | 1-MCA-YC-108 | MCSRD-YC-305/SHT2 | QAL-14    | VT-3         | NA         | 0.000                 |          |                        |
| Sprir        | ng Hgr       | MCFD 1618-01.00   |           |              |            | 0.000                 |          |                        |
| Class C      |              |                   |           |              |            |                       |          |                        |

Total F01.030 Items:

### CATEGORY F-A, Supports (Category A)

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## DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

|              | Ir  | iservice ins | pection Data   | base Manage                        | ement System         |  | Plan Report   |
|--------------|---|--------------|--|------------------------------------|----------------------|--|---|
| g Supports   |   |              | Page 39  |                                    |                      |  |   |
|              |   | Inservice I  | Inspection P   | lan for Inte                       | rvai 2 Outage 5      |  | 09/09/1998  |
| ID NUMBER    | ISO/DWG NUMBERS                             | PROC         | INSP REQ   | MAT/SCH                            | DIA/THK CAL BLOCKS   | COMMENTS   |   |
| 1-MCA-YC-109 | MCSRD-YC-305/SHT2                           | QAL-14       | VT-3   | NA                                 | 0.000                |  |   |
| Snubber      | MCFD 1618-01.00                             |              |  |                                    | 0.000                |  |   |
| 1-MCA-YC-189 | MCSRD-YC-306/SHT1                           | QAL-14       | VT-3   | NA                                 | 0.000                |  |   |
| Restraint    | MCFD 1618-01.00                             |              |  |                                    | 0.000                |  |   |
|              |   |              |  |                                    |                      |  |   |
|              | ID NUMBER 1-MCA-YC-109 Snubber 1-MCA-YC-189 | ID NUMBER    | Inservice   Inse | Inservice Inspection P   ID NUMBER | Supports   McGuire 1 | Supports   Inservice Inspection Plan for Interval 2 Outage 5 | Inservice Inspection Plan for Interval 2 Outage 5   ID NUMBER |

#### **CATEGORY F-A, Supports**

Supports other than Piping Supports (Class 1, 2,

## DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

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Inservice Inspection Plan for Interval 2 Outage 5

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| CH DIA/THK CAL BLOCKS | MAT/SCH  | INSP REQ  | PROC  | ISO/DWG NUMBERS  | ID NUMBER   | ITEM NUMBER  |
|-----------------------|--|---|---|--|---|--|
|                       |  |   |   |  | ID HOWDEN   | TIEM NUMBER  |
| 0.000                 | NA   | VT-3  | QAL-14  | MCM 1201.01-78   | 1RV-SUPPORT-A   | F01.040.021  |
| 0.000                 |  |   |   | MCM 1201.01-79   |   |  |
|                       |  |   |   | MCM 1117.00-10   |   | Class A  |
| 0.000                 | NA   | VT-3  | QAL-14  | MCM 1201.01-78   | 1RV-SUPPORT-B   | F01.040.022  |
| 0.000                 |  |   |   | MCM 1201.01-79   |   |  |
|                       |  |   |   | MCM 1117.00-10   |   | Class A  |
| 0.000                 | NA   | VT-3  | QAL-14  | MC 1220-32   | 1KFHX-SUP-1A  | F01.040.025  |
| 0.000                 |  |   |   | MCM 1201-06-0027   |   |  |
| 0.000                 | NA   | VT-3  | QAL-14  | MCM 1201.04-113  | 1KC-ST-SUP  | F01.040.026  |
| 0.000                 |  |   |   |  |   |  |
| 0.000                 | NA   | VT-3  | QAL-14  | MCM 1201.05-143  | 1KCP-SUP-1A   | F01.040.027  |
| 0.000                 |  |   |   |  |   |  |
| 0.000                 | NA   | VT-3  | QAL-14  | MCM 1201 06-24   | 1KCHX-SUP-1A  | F01.040.028  |
| 0.000                 |  |   |   |  |   |  |
| 0.000                 | NA   | VT-3  | OAL-14  | MCM 1201 05-190  | 1RNP-SUP-1A   | F01.040.029  |
| 0.000                 |  |   |   |  |   |  |
|                       | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000 | 0.000  NA 0.000 | VT-3 NA 0.000 | QAL-14 VT-3 NA 0.000  QAL-14 VT-3 NA 0.000 | MCM 1201.01-79       0.000         MCM 1201.01-78       QAL-14       VT-3       NA       0.000         MCM 1201.01-79       MCM 1117.00-10       0.000       0.000         MC 1220-32       QAL-14       VT-3       NA       0.000         MCM 1201-06-0027       QAL-14       VT-3       NA       0.000         MCM 1201.04-113       QAL-14       VT-3       NA       0.000         MCM 1201.05-143       QAL-14       VT-3       NA       0.000         MCM 1201.06-24       QAL-14       VT-3       NA       0.000         MCM 1201.05-190       QAL-14       VT-3       NA       0.000 | MCM 1201.01-79 MCM 1117.00-10  1RV-SUPPORT-B MCM 1201.01-78 MCM 1201.01-79 MCM 1117.00-10  1KFHX-SUP-1A MC 1220-32 MCM 1201-06-0027 MCM 1201-06-0027  MCM 1201.04-113 QAL-14 VT-3 NA 0.000 0.000  1KCP-SUP-1A MCM 1201.05-143 QAL-14 VT-3 NA 0.000 0.000  1KCP-SUP-1A MCM 1201.06-24 QAL-14 VT-3 NA 0.000 0.000  1KCP-SUP-1A MCM 1201.06-24 QAL-14 VT-3 NA 0.000 0.000 |

Total F01.040 Items:

7

Total F01 Items:

87

#### **CATEGORY AUG, Augmented Inspections**

## DUKE ENERGY CORPORATION QUALITY ASSURANCE TECHNICAL SERVICES Inservice Inspection Database Management System

Augmented Exam, Reactor Coolant Pump

McGuire 1

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|           |                 | Inservice I                                      | nspection P   | lan for Inte  | erval 2 Outage 5   |   | 09/09/1998  |
|-----------|-----------------|--|---|---|--|---|---|
| ID NUMBER | ISO/DWG NUMBERS | PROC   | INSP REQ  | MAT/SCH   | DIA/THK CAL BLOCKS   | COMMENTS  |   |
| 1RCP-1A   | MCM 1201.01-7   | NDE-900  | UT  | CS  | 0.000<br>0.000   | REACTOR COOLA   | NT PUMP 1A FLYWHEEL   |
|           |                 |  |   |   |  |   |   |
| 1RCP-1B   | MCM 1201.01-7   | NDE-900  | UT  | CS  | 0.000  |   | NT PUMP 1B FLYWHEEL<br>0% EXAMINED  |
|           |                 |  |   |   |  |   |   |
|           | 1RCP-1A         | ID NUMBER ISO/DWG NUMBERS  1RCP-1A MCM 1201.01-7 | ID NUMBER ISO/DWG NUMBERS PROC  1RCP-1A MCM 1201.01-7 NDE-900 | ID NUMBER ISO/DWG NUMBERS PROC INSP REQ  1RCP-1A MCM 1201.01-7 NDE-900 UT | ID NUMBER ISO/DWG NUMBERS PROC INSP REQ MAT/SCH  1RCP-1A MCM 1201.01-7 NDE-900 UT CS | 1RCP-1A MCM 1201.01-7 NDE-900 UT CS 0.000 1RCP-1B MCM 1201.01-7 NDE-900 UT CS 0.000 | ID NUMBER         ISO/DWG NUMBERS         PROC         INSP REQ         MAT/SCH DIA/THK CAL BLOCKS         COMMENTS           1RCP-1A         MCM 1201.01-7         NDE-900         UT         CS         0.000         REACTOR COOLA           1RCP-1B         MCM 1201.01-7         NDE-900         UT         CS         0.000         REACTOR COOLA |

Total G01.001 Items:

2

Total G01 Items:

2

#### 5.0 Results Of Inspections Performed

The results of each examination shown in the final ISI Plan (Section 4 of this report) are included in this section. The completion date and status for each examination are shown. Limited examinations are described in further detail in Section 5.2. All examinations revealing reportable indications are described in further detail in Section 6.

The information shown below is a field description for the reporting format 5.1 included in this section of the report:

> Item Number ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWF-2500-1 (Class 1 and Class 2), Augmented Requirements

**ID** Number Unique Identification Number

Insp Date Date of Examination

Insp Status CLR Clear

REC Recordable REP Reportable

Insp Limited Indicates inspection was limited. Coverage obtained is listed

Geo. Ref. Y Yes (Geometric Reflector N No

applies only to UT)

Comments General and/or Detail Description

#### DUKE ENERGY PORATION QUALITY ASSURANCE TECHNICAL SERVICES In-Service Inspection Database Management System McGuire 1 inservice Inspection Listing Interval 2 Outage 5

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| ITEM NUMBER  | ID NUMBER     | SYSTEM | INSP DATE  | INSP STATUS | INSP LIMITED | GEO REF | RFR | COMMENTS                      |
|--------------|---------------|--------|------------|-------------|--------------|---------|-----|-------------------------------|
| B02.011.001  | 1PZR-1        |        | 06/04/1998 | REC         |              | Y       | N   |                               |
| B02.011 202  | 1PZR-5        |        | 06/04/1998 | REC         |              | Υ       | N   |                               |
| B03.140.005  | 1SGC-INLET    |        | 06/23/1998 | CLR         | 83.28%       | N       | Y   | See Request for Relief 98-004 |
| B03.140.006  | 1SGC-OUTLET   |        | 06/23/1998 | CLR         | 83.28%       | N       | Y   | See Request for Relief 98-004 |
| B06.100.001  | 1SGA-MW-X2-Y1 |        | 06/21/1998 | CLR         |              | N       | N   |                               |
| B06.100.002  | 1SGA-MW-X2-Y2 |        | 06/21/1998 | CLR         | ***          | N       | N   |                               |
| B06.100.003  | 1SGB-MW-X1-Y1 |        | 06/22/1998 | CLR         |              | N       | N   |                               |
| B06.100.004  | 1SGB-MW-X1-Y2 |        | 06/22/1998 | CLR         |              | N       | N   |                               |
| B06.100.005  | 1SGC-MW-X2-Y1 |        | 06/21/1998 | CLR         |              | N       | N   |                               |
| B06.100.006  | 1SGC-MW-X2-Y2 |        | 06/21/1998 | CLR         |              | N       | N   |                               |
| B06.100.007  | 1SGD-MW-X1-Y1 |        | 06/22/1998 | CLR         | ***          | N       | N   |                               |
| 806.100.008  | 1SGD-MW-X1-Y2 |        | 06/22/1998 | CLR         |              | N       | N   |                               |
| B07.070.102A | 1NV-21A       |        | 06/06/1998 | CLR         |              | N       | N   |                               |
| B09.011.049  | 1NCP-224-5    | NC     | 06/04/1998 | REC         |              | Y       | N   |                               |
| B09.011.049A | 1NCP-224-5    | NC     | 06/04/1998 | CLR         |              | N       | N   |                               |
| B09.011.050  | 1NCP-224-4    | NC     | 06/04/1998 | REC         |              | Y       | N   |                               |
| B09.011.050A | 1NCP-224-4    | NC     | 06/04/1998 | C_R         |              | N       | N   |                               |
| B09.011.051  | 1NCP-224-3    | NC     | 06/04/1998 | REC         |              | Y       | N   |                               |
| B09.011.051A | 1NCP-224-3    | NC     | 06/04/1998 | CLR         |              | N       | N   |                               |
| B09.011.052  | 1NCP-224-2    | NC     | 06/04/1998 | REC         |              | Y       | N   |                               |
| B09.011.052A | 1NCP-224-2    | NC     | 06/04/1998 | CLR         |              | N       | N   |                               |
| B09.011.104  | 1ND1F-240     | ND     | 06/05/1998 | CLR         |              | N       | N   |                               |
| B09.011.104A | 1ND1F-240     | ND     | 06/05/1998 | CLR         | ***          | N       | N   |                               |
| B09.011.217  | 1NI-457-1     | NI     | 06/05/1998 | REC         |              | Y       | N   |                               |
| B09.011.217A | 1NI-457-1     | NI     | 06/05/1998 | CLR         |              | N       | N   |                               |
| B09.011.221  | 1NI-185-1     | NI     | 06/03/1998 | CLR         | ***          | N       | N   |                               |
| B09.011.221A | ¹NI-185-1     | NI     | 06/03/1998 | CLR         |              | N       | N   |                               |
| B09.011.222  | 1NI-185-2     | NI     | 06/03/1998 | REC         |              | Y       | N   |                               |
| B09.011.222A | 1NI-185-2     | NI     | 06/02/1998 | CLR         | ***          | N       | N   |                               |
| B09.011.223  | 1NI-185-3     | NI     | 06/03/1998 | CLR         |              | N       | N   |                               |
| B09.011.223A | 1NI-185-3     | NI     | 06/02/1998 | CLR         |              | N       | N   |                               |
| B09.021.009  | 1NC1F-1374    | NC     | 06/02/1998 | CLR         |              | N       | N   |                               |
| B09.021.017  | 1NC1F4-9A     | NC     | 06/08/1998 | CLR         |              | N       | N   |                               |
| B09.031.007  | 1NC52-WN6     | NC     | 06/08/1998 | CLR         | 29.81%       | N       | Y   | See Request for Relief 98-004 |
| B09.031.007A | 1NC52-WN6     | NC     | 06/08/1998 | CLR         |              | N       | N   |                               |
| B09.032.017  | 1NC23-WN7     | NC     | 06/02/1998 | CLR         |              | N       | N   |                               |

EOC "

Plan AcGuire 1

# DUKE ENERGY PORATION QUALITY ASSURANCE TECHNICAL SERVICES In-Service Inspection Database Management System McGuire 1 Inservice Inspection Listing Interval 2 Outage 5

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| ITEM NUMBER  | ID NUMBER    | SYSTEM | INSP DATE  | INSP STATUS | INSP LIMITED | GEO REF | RFR | COMMENTS                               |
|--------------|--------------|--------|------------|-------------|--------------|---------|-----|--|
| B09.032.018  | 1NC24-WN7    | NC     | 06/03/1998 | CLR         |              | N       | N   |  |
| B09.032.019  | 1NC33-WN7    | NC     | 06/03/1998 | CLR         |              | N       | N   |  |
| B09.040.002  | 1NC1F-285    | NC     | 06/02/1998 | CLR         |              | N       | N   |  |
| B09.040.004  | 1NC1F-970    | NC     | 06/03/1998 | CLR         |              | N       | N   |  |
| B09.040.007  | 1NC1F-1322   | NC     | 06/02/1998 | CLR         |              | N       | N   |  |
| B09.040.015  | 1NC1F-1812   | NC     | 06/03/1998 | CLR         |              | N       | N   |  |
| B09.040.016  | 1NC1F-1613   | NC     | 06/09/1998 | CLR         |              | N       | N   |  |
| B09.040.017  | 1NC1F-1614   | NC     | 06/05/1998 | CLR         |              | N       | N   |  |
| B09.040.113  | 1NI1F-638    | NI     | 06/10/1998 | CLR         |              | N       | N   |  |
| B09.040.115  | 1NI1F-647    | NI     | 06/10/1998 | CLR         |              | N       | N   |  |
| B09.040.206  | 1NV1F-889    | NV     | 06/05/1998 | CLR         |              | N       | N   |  |
| C01.020.070  | 5141-1-HD1   |        | 11         |             | 0.00%        | N       | Y   | See Request for Relief 98-002 & 98-003 |
| C01.020.071  | 5141-1-HD2   |        | 11         |             | 0.00%        | N       | Y   | See Request for Relief 98-002 & 98-003 |
| C01.030.020  | 5141-1-NB-TS |        | 11         |             | 0.00%        | N       | Y   | See Request for Relief 98-002 & 98-003 |
| C01.030.021  | 5141-1-TS-SH |        | 11         |             | 0.00%        | N       | Y   | See Request for Relief 98-002 & 98-003 |
| C05.011.014  | 1ND1F154     | ND     | 05/18/1998 | REC         |              | Y       | N   |  |
| C05.011.014A | 1ND1F154     | ND     | 05/18/1998 | CLR         |              | N       | N   |  |
| C05.011.036  | 1ND1F93      | ND     | 05/27/1998 | REC         |              | Y       | N   |  |
| C05.011.036A | 1ND1F93      | ND     | 05/26/1998 | CLR         |              | N       | N   |  |
| C05.011.038  | 1ND70B-1     | ND     | 05/20/1998 | CLR         |              | N       | N   |  |
| C05.011.038A | 1ND70B-1     | ND     | 05/20/1998 | CLR         |              | N       | N   |  |
| C05.011.041  | 1ND69-2      | ND     | 05/20/1998 | CLR         |              | N       | N   |  |
| C05.011.041A | 1ND69-2      | ND     | 05/20/1998 | CLR         |              | N       | N   |  |
| C05.011.042  | 1ND69-3      | ND     | 05/20/1998 | CLR         | ***          | N       | N   |  |
| C05.011.042A | 1ND69-3      | ND     | 05/20/1998 | CLR         |              | N       | N   |  |
| C05.011.045  | 1ND69A-2     | ND     | 05/21/1998 | REC         |              | Y       | N   |  |
| C05.011.045A | 1ND69A-2     | ND     | 05/21/1998 | CLR         |              | N       | N   |  |
| C05.011.047  | 1ND69A-4     | ND     | 05/21/1998 | CLR         |              | N       | N   |  |
| C05.011.047A | 1ND69A-4     | ND     | 05/21/1998 | CLR         |              | N       | N   |  |
| C05.011.049  | 1ND1F96      | ND     | 05/27/1998 | REC         | ***          | Y       | N   |  |
| C05.011.049A | 1ND1F96      | ND     | 05/26/1998 | CLR         |              | N       | N   |  |
| C05.011.101  | 1NI125-2     | NI     | 05/21/1998 | CLR         |              | N       | N   |  |
| C05.011.101A | 1NI125-2     | NI     | 05/21/1998 | CLR         |              | N       | N   |  |
| C05.011.144  | 1NI177-2     | NI     | 06/03/1998 | REC         |              | Υ       | N   |  |
| C05.011.144A | 1NI177-2     | NI     | 06/02/1998 | CLR         |              | N       | N   |  |
| C05.011.147  | 1NI176-3     | NI     | 06/03/1998 | REC         |              | Y       | N   |  |
|              |              |        |            |             |              |         |     |  |

# DUKE ENERGY RPORATION QUALITY ASSURANCE TECHNICAL SERVICES In-Service Inspection Database Management System McGuire 1 Inservice Inspection Listing Interval 2 Outage 5

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| ITEM NUMBER  | ID NUMBER    | SYSTEM | INSP DATE  | INSP STATUS | INSP LIMITED | GEO REF | RFR | COMMENTS |
|--------------|--------------|--------|------------|-------------|--------------|---------|-----|----------|
| C05.011.147A | 1NI176-3     | NI     | 06/02/1998 | CLR         |              | N       | N   |          |
| C05.011.148  | 1NI1F-260A   | NI     | 06/03/1998 | REC         |              | Y       | N   |          |
| C05.011.148A | 1NI1F-260A   | NI     | 06/02/1998 | CLR         |              | N       | N   |          |
| C05.011.150  | 1NI177-3     | NI     | 06/03/1998 | REC         |              | Y       | N   |          |
| C05.011.150A | 1NI177-3     | NI     | 06/02/1998 | CLR         |              | N       | N   |          |
| C05.011.200  | 1NS1F-1878   | NS     | 06/11/1998 | CLR         |              | N       | N   |          |
| C05.011.200A | 1NS1F-1878   | NS     | 06/11/1998 | CLR         |              | N       | N   |          |
| C05.011.201  | 1NS1F-1877   | NS     | 06/11/1998 | CLR         |              | N       | N   |          |
| C05.011.201A | 1NS1F-1877   | NS     | 06/11/1998 | CLR         |              | N       | N   |          |
| C05.021.065  | 1NV25B-2     |        | 05/28/1998 | REC         |              | Y       | N   |          |
| C05.021.065A | 1NV25B-2     |        | 05/28/1998 | CLR         |              | N       | N   |          |
| C05.021.066  | 1NV1F-4817   |        | 05/28/1998 | CLR         |              | N       | N   |          |
| C05.021.066A | 1NV1F-4817   |        | 05/28/1998 | CLR         |              | N       | N   |          |
| C05.021.067  | 1NV1F-2473   |        | 05/28/1998 | CLR         |              | N       | N   |          |
| C05.021.067A | 1NV1F-2473   |        | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.021.068  | 1NV77-4      | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.021.068A | 1NV77-4      | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.021.069  | 1NV77-3      | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.021.069A | 1NV77-3      | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.030.079  | 1NV1F181-182 | NV     | 06/02/1998 | CLR         |              | N       | N   |          |
| C05.030.080  | 1NV185-2     | NV     | 06/02/1998 | CLR         |              | N       | N   |          |
| C05.030.081  | 1NV1FW172-10 | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.030.082  | 1NV1FW172-13 | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.030.083  | 1NV1F-2299   | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.030.084  | 1NV1FW173-20 | NV     | 05/27/1998 | CLR         |              | N       | N   |          |
| C05.051.015  | 1CA1F-758    | CA     | 06/09/1998 | CLR         |              | N       | N   |          |
| C05.051.015A | 1CA1F758     | CA     | 06/09/1998 | CLR         |              | N       | N   |          |
| C05.051.054  | 1CF1F-601    | CF     | 06/13/1998 | CLR         |              | N       | N   |          |
| C05.051.054A | 1CF1F-601    | CF     | 06/13/1998 | CLR         |              | N       | N   |          |
| C05.051.056  | 1CF1F-647    | CF     | 06/17/1998 | CLR         |              | N       | N   |          |
| C05.051.056A | 1CF1F-647    | CF     | 06/17/1998 | CLR         |              | N       | N   |          |
| C05.051.059  | 1CF-125-A    | CF     | 06/13/1998 | REC         |              | Y       | N   |          |
| C05.051.059A | 1CF-125-A    | CF     | 06/13/1998 | CLR         |              | N       | N   |          |
| C05.051.150  | 1SA1F-219    | SA     | 06/17/1998 | CLR         |              | N       | N   |          |
| C05.051.150A | 1SA1F-219    | SA     | 06/17/1998 | CLR         |              | N       | N   |          |
| C05.051.203  | 1SM1F-420    | SM     | 06/17/1998 | CLR         | ***          | N       | N   |          |
|              |              |        |            |             |              |         |     |          |

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## DUKE ENERGY SERPORATION QUALITY ASSURANCE TECHNICAL SERVICES In-Service Inspection Database Management System McGuire 1 Inservice Inspection Listing

Interval 2 Outage 5

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|              |              |        |            | int         | terval 2 Outage | 50      |     |          |
|--------------|--------------|--------|------------|-------------|-----------------|---------|-----|----------|
| ITEM NUMBER  | ID NUMBER    | SYSTEM | INSP DATE  | INSP STATUS | INSP LIMITED    | GEO REF | RFR | COMMENTS |
| C05.051.203A | 1SM1F-420    | SM     | 06/17/1998 | CLR         |                 | N       | N   |          |
| C05.051.300  | 1VP1F-13     | VP     | 06/10/1998 | REC         |                 | Υ       | N   |          |
| C05.051.300A | 1VP1F-13     | VP     | 06/10/1998 | CLR         |                 | N       | N   |          |
| C05.051.301  | 1VP1F-1      | VP     | 06/10/1998 | CLR         |                 | N       | N   |          |
| C05.051.301A | 1VP1F-1      | VP     | 06/10/1998 | CLR         |                 | N       | N   |          |
| C06.020.005A | 1NY-240-1    |        | 05/27/1998 | CLR         | ***             | N       | N   |          |
| C06.020.005B | 1NV-240-2    |        | 05/27/1998 | CLR         |                 | N       | N   |          |
| C06.020.005C | 1NV-242-1    |        | 05/27/1998 | CLR         |                 | N       | N   |          |
| C06.020.005D | 1NV-242-2    |        | 05/27/1998 | CLR         |                 | N       | N   |          |
| D02.020.006  | 1-MCA-CA-10  | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.007  | 1-MCA-CA-13  | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.008  | 1-MCA-CA-151 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.009  | 1-MCA-CA-153 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.010  | 1-MCA-CA-181 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.011  | 1-MCA-CA-2   | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.012  | 1-MCA-CA-207 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.013  | 1-MCA-CA-211 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.014  | 1-MCA-CA-212 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.015  | 1-MCA-CA-278 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.016  | 1-MCA-CA-296 | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.017  | 1-MCA-CA-297 | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.018  | 1-MCA-CA-299 | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.019  | 1-MCA-CA-301 | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.020  | 1-MCA-CA-305 | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.021  | 1-MCA-CA-309 | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.022  | 1-MCA-CA-312 | CA     | 03/02/1998 | CLR         | ***             | N       | N   |          |
| D02.020.024  | 1-MCA-CA-319 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.025  | 1-MCA-CA-378 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.026  | 1-MCA-CA-4   | CA     | 03/02/1998 | CLR         |                 | N       | N   |          |
| D02.020.027  | 1-MCA-CA-42  | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.035  | 1-MCA-CA-274 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.020.036  | 1-MCA-CA-275 | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.040.001  | 1-MCA-CA-84  | CA     | 03/05/1998 | CLR         |                 | N       | N   |          |
| D02.040.002  | 1-MCA-CA-168 | CA     | 03/05/1998 | REC         |                 | N       | N   |          |
| F01.010.016A | 1-MCR-NC-577 |        | 06/01/1998 | CLR         |                 | N       | N   |          |
| F01.010.018C | 1-MCR-NC-687 |        | 06/04/1998 | CLR         |                 | N       | N   |          |
|              |              |        |            |             |                 |         |     |          |

EOC 12

# DUKE ENERGY RPORATION QUALITY ASSURANCE TECHNICAL SERVICES in-Service inspection Database Management System McGuire 1 Inservice Inspection Listing Interval 2 Outage 5

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|    | ITEM NUMBER  | ID NUMBER         | SYSTEM | INSP DATE  | INSP STATUS | INSP LIMITED | GEO REF | RFR | COMMENTS |
|----|--------------|-------------------|--------|------------|-------------|--------------|---------|-----|----------|
|    | F01.010.054A | 1-MCR-ND-510      |        | 06/01/1998 | CLR         | Case .       | N       | N   |          |
|    | F01.010.112B | 1-MCR-NI-577      |        | 06/01/1998 | CLR         |              | N       | N   |          |
|    | F01.010.113C | 1-MCR-NI-585      |        | 06/01/1998 | CLR         |              | N       | N   |          |
|    | F01.010.161C | 1-MCR-NV-1067     |        | 06/01/1998 | CLR         |              | N       | N   |          |
|    | F01.020.172C | 1-MCA-ND-260      |        | 04/15/1998 | CLR         |              | N       | N   |          |
|    | F01.020.173C | 1-MCA-ND-281      |        | 04/07/1998 | CLR         |              | N       | N   |          |
|    | F01.020.174C | 1-MCA-ND-295      |        | 04/15/1998 | CLR         |              | N       | N   |          |
| ŀ. | F01.020.205A | 1-MCA-NI-178      |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.206C | 1-MCA-NI-179      |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.207C | 1-MCA-NI-357      |        | 04/15/1998 | CLR         |              | N       | N   |          |
|    | F01.020.224C | 1-MCR-NI-721      |        | 06/01/1998 | CLR         |              | N       | N   |          |
|    | F01.020.266C | 1-MCA-NS-098      |        | 04/15/1998 | CLR         |              | N       | N   |          |
|    | F01.020.267C | 1-MCA-NS-102      |        | 04/15/1998 | CLR         |              | N       | N   |          |
|    | F01.020.268B | 1-MCA-NS-103      |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.325A | 1-MCA-NV-037      |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.326B | MC 1683-NV-04-R36 |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.327B | 1-MCA-NV-039      |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.328A | 1-MCA-NV-040      |        | 04/30/1998 | REC         |              | N       | N   |          |
|    | F01.020.329A | 1-MCA-NV-041      |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.020.553C | 1-MCA-SM-101      | SM     | 04/02/1998 | CLR         |              | N       | N   |          |
|    | F01.030.003C | 1-MCA-CA-325      | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.004C | 1-MCA-CA-84       | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.005C | 1-MCA-CA-187      | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.006C | 1-MCA-CA-168      | CA     | 03/05/1998 | REC         |              | N       | N   |          |
|    | F01.030.007C | 1-MCA-CA-52       | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.008C | 1-MCA-CA-57       | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.009A | 1-MCA-CA-274      | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.010B | 1-MCA-CA-275      | CA     | 03/05/1998 | CLR         |              | N       | N   |          |
|    | F01.030.064B | MC 1683-NV-07-R3  |        | 04/30/1998 | CLR         | ***          | N       | N   |          |
|    | F01.030.065B | MC 1683-NV-07-R8  |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.030.066A | MC 1683-NV-08-R10 |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.030.067A | MC 1683-NV-08-R13 |        | 04/30/1998 | CLR         |              | N       | N   |          |
|    | F01.030.111A | 1-MCA-KC-1091     | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
|    | F01.030.112A | 1-MCA-KC-1089     | KC     | 05/11/198  | CLR         |              | N       | N   |          |
|    | F01.030.114A | 1-MCA-KC-1006     | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
|    | F01.030.115A | 1-MCA-KC-2297     | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
|    |              |                   |        |            |             |              |         |     |          |

EOC 12

# DUKE ENERGY RPORATION QUALITY ASSURANCE TECHNICAL SERVICES In-Service Inspection Database Management System McGuire 1 Inservice Inspection Listing Interval 2 Outage 5

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| ITEM NUMBER  | ID NUMBER     | SYSTEM | INSP DATE  | INSP STATUS | INSP LIMITED | GEO REF | RFR | COMMENTS |
|--------------|---------------|--------|------------|-------------|--------------|---------|-----|----------|
| F01.030.116A | 1-MCA-KC-H100 | KC     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.117A | 1-MCA-KC-1005 | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.118A | 1-MCA-KC-2325 | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.119A | 1-MCA-KC-2313 | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.120A | 1-MCA-KC-H80  | KC     | 05/07/1998 | CLR         |              | N       | N   |          |
| F01.030.122B | 1-MCA-KC-1015 | KC     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.123B | 1-MCA-KC-1090 | KC     | 05/12/1998 | CLR         |              | N       | N   |          |
| F01.030.124B | 1-MCA-KC-2190 | KC     | 05/11/1998 | REC         |              | N       | N   |          |
| F01.030.125B | 1-MCA-KC-2134 | KC     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.128B | 1-MCA-KC-1034 | KC     | 05/06/1998 | CLR         | ***          | N       | N   |          |
| F01.030.129B | 1-MCA-KC-1027 | T.C    | 07/1998    | REC         |              | N       | N   |          |
| F01.030.130B | 1-MCA-KC-1043 | KC     | :06/1998   | CLR         |              | N       | N   |          |
| F01.030.131B | 1-MCA-KC-1030 | KC     | _5/07/1998 | CLR         |              | N       | N   |          |
| F01.030.132B | 1-MCA-KC-1009 | KC     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.133B | 1-MCA-KC-1007 | KC     | 05/11/1998 | CLR         | ***          | N       | N   |          |
| F01.030.134C | 1-MCA-KC-1102 | KC     | 05/13/1998 | CLR         |              | N       | N   |          |
| F01.030.135C | 1-MCA-KC-2321 | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.136C | 1-MCA-KC-2105 | KC     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.150B | 1-MCA-KD-81   | KD     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.151A | 1-MCA-KD-082  | KD     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.152C | 1-MCA-KD-083  | KD     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.153C | 1-MCA-KD-165  | KD     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.165B | 1-MCA-RN-H939 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.167B | 1-MCA-RN-H979 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.168B | 1-MCA-RN-2024 | RN     | 05/06/1998 | CLR         | ***          | N       | N   |          |
| F01.030.169B | 1-MCA-RN-2330 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.171B | 1-MCA-RN-2524 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.172B | 1-MCA-RN-1076 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.173B | 1-MCA-RN-1077 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.183B | 1-MCA-RN-1131 | RN     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.220A | 1-MCA-WN-H29  | WN     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.221B | 1-MCA-WN-H64  | WN     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.222B | 1-MCA-WN-H66  | WN     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.223C | 1-MCA-WN-H25  | WN     | 05/11/1998 | CLR         |              | N       | N   |          |
| F01.030.230A | 1-MCA-YC-003  | YC     | 05/06/1998 | CLR         |              | N       | N   |          |
| F01.030.231A | 1-MCA-YC-028  | YC     | 05/06/1998 | CLR         |              | N       | N   |          |

EOC 12

DUKE ENERGY APPORATION
QUALITY ASSURANCE TECHNICAL SERVICES
In-Service Inspection Database Management System
McGuire 1 Inservice Inspection Listing
Interval 2 Outage 5

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EOC 12 Plant: McGuire 1

| ID NUMBER     | SYSTEM   | INSP DATE   | INSP STATUS   | INSP LIMITED  | GEO REF   | RFR   | COMMENTS  |
|---------------|--|---|---|---|---|---|---|
| 1-MCA-YC-040  | YC   | 05/06/1998  | CLR   |   | N   | N   |   |
| 1-MCA-YC-169  | YC   | 05/06/1998  | CLR   | ***   | N   | N   |   |
| 1-MCA-YC-114  | YC   | 05/06/1998  | CLR   |   | N   | N   |   |
| 1-MCA-YC-108  | YC   | 05/06/1998  | CLR   |   | N   | N   |   |
| 1-MCA-YC-109  | YC   | 05/06/1998  | CLR   |   | N   | N   |   |
| 1-MCA-YC-189  | YC   | 05/06/1998  | CLR   |   | N   | N   |   |
| 1RV-SUPPORT-A | NC   | 05/31/1998  | CLR   |   | N   | N   |   |
| 1RV-SUPPORT-B | NC   | 05/31/1998  | CLR   | ***   | N   | N   |   |
| 1KFHX-SUP-1A  |  | 05/18/1998  | CLR   |   | N   | N   |   |
| 1KC-ST-SUP    |  | 05/18/1998  | CLR   |   | N   | N   |   |
| 1KCP-SUP-1A   |  | 05/18/1998  | CLR   |   | N   | N   |   |
| 1KCHX-SUP-1A  |  | 05/18/1998  | CLR   |   | N   | N   |   |
| 1RNP-SUP-1A   |  | 05/18/1998  | CLR   |   | N   | N   |   |
| 1RCP-1A       |  | 06/03/1998  | CLR   |   | N   | N   |   |
| 1RCP-1B       |  | 06/10/1998  | CLR   |   | N   | N   |   |
|               | 1-MCA-YC-040<br>1-MCA-YC-169<br>1-MCA-YC-114<br>1-MCA-YC-108<br>1-MCA-YC-109<br>1-MCA-YC-189<br>1RV-SUPPORT-A<br>1RV-SUPPORT-B<br>1KFHX-SUP-1A<br>1KC-ST-SUP<br>1KCP-SUP-1A<br>1RCP-1A | 1-MCA-YC-040 YC 1-MCA-YC-169 YC 1-MCA-YC-114 YC 1-MCA-YC-108 YC 1-MCA-YC-109 YC 1-MCA-YC-189 YC 1-MCA-YC-189 YC 1RV-SUPPORT-A NC 1RV-SUPPORT-B NC 1KFHX-SUP-1A 1KC-ST-SUP 1KCP-SUP-1A 1RNP-SUP-1A 1RNP-SUP-1A | 1-MCA-YC-040 YC 05/06/1998 1-MCA-YC-169 YC 05/06/1998 1-MCA-YC-114 YC 05/06/1998 1-MCA-YC-108 YC 05/06/1998 1-MCA-YC-109 YC 05/06/1998 1-MCA-YC-109 YC 05/06/1998 1-MCA-YC-189 YC 05/06/1998 1RV-SUPPORT-A NC 05/31/1998 1RV-SUPPORT-B NC 05/31/1998 1KFHX-SUP-1A 05/18/1998 1KC-ST-SUP 05/18/1998 1KCP-SUP-1A 05/18/1998 1KCHX-SUP-1A 05/18/1998 1RNP-SUP-1A 05/18/1998 1RNP-SUP-1A 05/18/1998 | 1-MCA-YC-040 YC 05/06/1998 CLR 1-MCA-YC-169 YC 05/06/1998 CLR 1-MCA-YC-114 YC 05/06/1998 CLR 1-MCA-YC-108 YC 05/06/1998 CLR 1-MCA-YC-109 YC 05/06/1998 CLR 1-MCA-YC-189 YC 05/06/1998 CLR 1RV-SUPPORT-A NC 05/31/1998 CLR 1RV-SUPPORT-B NC 05/31/1998 CLR 1KFHX-SUP-1A 05/18/1998 CLR 1KC-ST-SUP 05/18/1998 CLR 1KCP-SUP-1A 05/18/1998 CLR 1KCP-SUP-1A 05/18/1998 CLR 1RV-SUP-1A 05/18/1998 CLR 1RCP-SUP-1A 05/18/1998 CLR 1RCP-SUP-1A 05/18/1998 CLR | 1-MCA-YC-040 YC 05/06/1998 CLR 1-MCA-YC-169 YC 05/06/1998 CLR 1-MCA-YC-114 YC 05/06/1998 CLR 1-MCA-YC-108 YC 05/06/1998 CLR 1-MCA-YC-109 YC 05/06/1998 CLR 1-MCA-YC-189 YC 05/06/1998 CLR 1RV-SUPPORT-A NC 05/31/1998 CLR 1RV-SUPPORT-B NC 05/31/1998 CLR 1KFHX-SUP-1A 05/18/1998 CLR 1KCP-SUP-1A 05/18/1998 CLR 1RCP-SUP-1A 05/18/1998 CLR 1RCP-SUP-1A 05/18/1998 CLR 1RCP-1A 06/03/1998 CLR | 1-MCA-YC-040 YC 05/06/1998 CLR N 1-MCA-YC-169 YC 05/06/1998 CLR N 1-MCA-YC-114 YC 05/06/1998 CLR N 1-MCA-YC-108 YC 05/06/1998 CLR N 1-MCA-YC-109 YC 05/06/1998 CLR N 1-MCA-YC-189 YC 05/06/1998 CLR N 1RV-SUPPORT-A NC 05/31/1998 CLR N 1RV-SUPPORT-B NC 05/31/1998 CLR N 1KFHX-SUP-1A 05/18/1998 CLR N 1KCP-SUP-1A 05/18/1998 CLR N 1RCP-SUP-1A 05/18/1998 CLR N | 1-MCA-YC-040 YC 05/06/1998 CLR N N N 1-MCA-YC-169 YC 05/06/1998 CLR N N N 1-MCA-YC-114 YC 05/06/1998 CLR N N N 1-MCA-YC-108 YC 05/06/1998 CLR N N N 1-MCA-YC-109 YC 05/06/1998 CLR N N N 1-MCA-YC-109 YC 05/06/1998 CLR N N N 1-MCA-YC-189 YC 05/06/1998 CLR N N N 1RV-SUPPORT-A NC 05/31/1998 CLR N N N 1RV-SUPPORT-B NC 05/31/1998 CLR N N N 1KFHX-SUP-1A 05/18/1998 CLR N N N 1KC-ST-SUP 05/18/1998 CLR N N N 1KCP-SUP-1A 05/18/1998 CLR N N N 1KCP-SUP-1A 05/18/1998 CLR N N N 1KCHX-SUP-1A 05/18/1998 CLR N N N 1KCHX-SUP-1A 05/18/1998 CLR N N N 1RNP-SUP-1A 05/18/1998 CLR N N N 1RNP-SUP-1A 05/18/1998 CLR N N N 1RNP-SUP-1A 05/18/1998 CLR N N N |

5.2 Limited examinations (i.e., 90% or less of the required examination coverage obtained) identified during Outage 5 /EOC 12 are shown below. A copy of the Request for Relief is contained in Section 9.0 of this report

| Item Number | Request for Relief Serial Number |
|-------------|----------------------------------|
| B03.140.005 | 98-004                           |
| B03.140.006 | 98-004                           |
| B09.031.007 | 98-004                           |
| C01.020.070 | 98-002 and 98-003                |
| C01.020.071 | 98-002 and 98-003                |
| C01.030.020 | 98-002 and 98-003                |
| C01.030.021 | 98-002 and 98-003                |

### 6.0 Reportable Indications

Outage 5 /EOC 12 had no reportable indications.

### 7.0 Personnel, Equipment and Material Certifications

All personnel who performed or evaluated the results of inservice inspections from May 20, 1997 to July 01, 1998 at McGuire Nuclear Station, Unit 1, were certified in accordance with the requirements of 1989 Edition of ASME Section XI with no addenda. The appropriate certification records for each inspector are on file at McGuire Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

Records of periodic calibration of inspection equipment are on file at McGuire Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

Records of materials used, (i.e., NDE consumables) are on file at McGuire Nuclear Station or copies can be obtained by contacting the Duke Energy's Corporate Office in Charlotte, North Carolina.

### 8.0 Corrective Action

No corrective action was required as a result of examinations performed during Outage 5 /EOC 12.

#### 9.0 Reference Documents

The following reference documents apply to the inservice inspection performed during Outage 5 /EOC 12 at McGuire Unit 1.

- (1) Request for Relief 98-002
- (2) Request for Relief 98-003
- (3) Request for Relief 98-004 listed in Section 5 is in the course of preparation and will be submitted at a later date.



H. B. Barron Vice President **Duke Energy Corporation** 

McGuire Nuclear Station 12700 Hagers Ferry Road Huntersville, NC 28078-9340 (704) 875-4800 OFFICE (704) 875-4809 FAX

August 13, 1998

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001

Subject: McGuire Nuclear Station

Docket Nos. 50-369, 370

Relief Requests 98-002 and 98-003

Pursuant to 10CFR50.55a(a)(3)(ii), Duke Energy Corporation requests relief from some requirements of the ASME Boiler and Pressure Vessel Code as described in the attached Relief Requests 98-002 and 98-003. These requests are submitted together since Relief Request 98-002 is used as the basis for approval of Relief Request 98-003.

Specifically, Relief Request 98-002 requests relief from performing Unit 1 and Unit 2 Regenerative Heat Exchanger volumetric examinations required by the 1989 ASME Boiler and Pressure Vessel Code, Section XI, Table IWC-2500-1, Examination Category C-A Pressure Retaining Welds in Pressure Vessels, Items Numbers C1.20 and C1.30, Figures IWC-2500-1 and IWC-2500-2 and Note (1). Relief Request 98-003 requests relief from the requirements of 1989 ASME Boiler and Pressure Vessel Code, Section XI, paragraph IWC-2412 and Table IWC-2412-1 as a result of Relief Request 98-002.

Questions should be directed to Julius Bryant, McGuire Licensing and Compliance, at (704) 875-4162.

Sincerely,

H. B. Barron, Vide President

McGuire Nuclear Station

Attachments

U.S. Nuclear Regulatory Commission August 13, 1998 Page 2

CC: Mr. L. A Reyes
 Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. F. Rinaldi, Project Manager Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission One White Flint North, Mail Stop 9H3 Washington, D.C. 20555

S. M. Shaeffer Senior NRC Resident Inspector McGuire Nuclear Station U.S. Nuclear Regulatory Commission August 13, 1998 Page 3

bxc w/att:

J. W. Bryant J. O. Barbour

R. Branch

G. J. Underwood D. E. Caldwell R. K. Rhyne G. D. Scarboro NRIA File/ELL

#### **Duke Energy Corporation**

#### Station McGuire Unit 1 & 2

### SECOND 10-YEAR INTERVAL REQUEST FOR RELIEF NO. 98-002

Pursuant to 10CFR50.55a (a)(3) (ii), Duke Energy Corporation has determined that compliance with the specified code requirements results in hardship or unusual difficulty and conformance with the examination requirements of the ASME Section XI requirements is not practical. This requirement would present hardship or unusual difficulty without a compensating increase in the level of quality and safety. Accordingly information is being submitted in support of our determination and a request is being sought for relief from the applicable ASME Section XI requirement(s).

#### I. System / Component(s) for Which Relief is Requested:

Safety-related ASME Section XI Code Class 2 Regenerative Heat Exchanger Head Circumferential and Tubesheet-to-Shell welds in Table IWC-2500-1 (Examination Category C-A). There are a total of twelve (12) welds per unit.

#### UNIT 1

| Weld Numbers | Item Numbers | Description                        | End Of<br>Cycle |
|--------------|--------------|------------------------------------|-----------------|
| 5141-1-HD1   | C01.020.070  | Nozzle Belt to Head<br>(Shell 1)   | 12              |
| 5141-1-HD2   | C01.020.071  | Shell to Head (Shell 1)            | 12              |
| 5141-2-HD1   | C01.020.072  | Nozzle Belt to Head<br>(Shell 2)   | 13              |
| 5141-2-HD2   | C01.020.073  | Shell to Head (Shell 2)            | 13              |
| 5141-3-HD1   | C01.020.074  | Nozzle Belt to Head (Shell 3)      | 14              |
| 5141-3-HD2   | C01.020.075  | Shell to Head (Shell 3)            | 14              |
| 5141-1-NB-TS | C01.030.020  | Nozzle Belt to Tubesheet (Shell 1) | 12              |
| 5141-1-TS-SH | C01.030.021  | Tubesheet to Shell (Shell 1)       | 12              |
| 5141-2-NB-TS | C01.030.022  | Nozzle Belt to Tubesheet (Shell 2) | 13              |

### UNIT 1 (Continued)

| Weld Numbers | Item Numbers | Description                        | End Of<br>Cycle |
|--------------|--------------|------------------------------------|-----------------|
| 5141-2-TS-SH | C01.030.023  | Tubesheet to Shell (Shell 2)       | 13              |
| 5141-3-NB-TS | C01.030.024  | Nozzle Belt to Tubesheet (Shell 3) | 14              |
| 5141-3-TS-SH | C01.030.025  | Tubesheet to Shell (Shell 3)       | 14              |

### UNIT 2

| Weld Numbers | Item Numbers | Description                           | End Of<br>Cycle |
|--------------|--------------|---------------------------------------|-----------------|
| 5141-1-HD1   | C01.020.070  | Nozzle Belt to Head<br>(Shell 1)      | 10              |
| 5141-1-HD2   | C01.020.071  | Shell to Head (Shell 1)               | 10              |
| 5141-2-HD1   | C01.020.072  | Nozzle Belt to Head<br>(Shell 2)      | 12              |
| 5141-2-HD2   | C01.020.073  | Shell to Head (Shell 2)               | 12              |
| 5141-3-HD1   | C01.020.074  | Nozzle Belt to Head (Shell 3)         | 14              |
| 5141-3-HD2   | C01.020.075  | Shell to Head (Shell 3)               | 14              |
| 5141-1-NB-TS | C01.030.020  | Nozzle Belt to Tubesheet (Shell 1)    | 10              |
| 5141-1-TS-SH | C01.030.021  | Tubesheet to Shell<br>(Shell 1)       | 10              |
| 5141-2-NB-TS | C01.030.022  | Nozzle Belt to Tubesheet<br>(Shell 2) | 12              |
| 5141-2-TS-SH | C01.030.023  | Tubesheet to Shell<br>(Shell 2)       | 12              |
| 5141-3-NB-TS | C01.030.024  | Nozzle Belt to Tubesheet<br>(Shell 3) | 14              |
| 5141-3-TS-SH | C01.030.025  | Tubesheet to Shell (Shell 3)          | 14              |

#### II. Code Requirement:

The 1989 Section XI ASME Boiler and Pressure Vessel Code, Table IWC-2500-1, Examination Category C-A (Pressure Retaining Welds in Pressure Vessels) requires a volumetric examination of the weld during each inspection interval. Included in this requirement are Item Number(s) C1.20 and C1.30, Figure Number(s) IWC-2500-1 and IWC-2500-2 and Note (1) which states "Includes essentially 100% of the weld length."

#### III. Code Requirement from which Relief is Requested:

Relief is requested from performing the volumetric examination required by the 1989 ASME Boiler and Pressure Vessel Section XI Code requirements of Table IWC-2500-1, Examination Category C-A Pressure Retaining Welds in Pressure Vessels for Item Number(s) C1.20 and C1.30, figure Number(s) IWC-2500-1 and IWC-2500-2 and Note (1) which states "Includes essentially 100% of the weld length."

#### IV. Basis for Relief:

Due to ALARA concerns of high radiation in the area of the heat exchangers, it is station management's recommendation that these welds not be examined. Per ALARA calculations, to complete the examination(s) on the Regenerative Heat Exchanger an estimated dose of 12038 mRem would be expected for each unit. Listed below are the dose estimates received from the McGuire Radiation Protection ALARA Specialist of the radiation exposure expected for these examinations. The estimates listed below assume dose rates at the time of examination will be comparable to dose rates measured during previous outages. However, it is likely that the dose rates in the Regenerative Heat Exchanger will be higher during the next few refueling outages due to higher cobalt activity in the coolant system resulting from operation of new Steam Generators. Plants that have replaced Steam Generators (including Catawba Nuclear Station) have reported higher radioactivity in the coolant system during outages following replacement of their Steam Generators, causing higher dose rates in piping and components associated with the coolant system.

The radiation levels in the general area of the heat exchanger are 600 mRem per hour.

| Activity                   | Тор  | Middle | Bottom | Total                |
|----------------------------|------|--------|--------|----------------------|
| Install/remove scaffolding | 900  | 900    | 0      | 1800                 |
| Remove/replace insulation  | 900  | 900    | 900    | mRem<br>2700<br>mRem |
| Prep (assumes no grinding) | 600  | 600    | 600    | 1800<br>mRem         |
| NDE                        | 1800 | 1800   | 1800   | 5400<br>mRem         |
| RP support                 | 113  | 113    | '13    | 338<br>mRem          |
| Total                      | 4313 | 4313   | 3413   | 12038<br>mRem        |

Additionally it is possible that the structural steel supporting the heat exchangers would have to be removed to facilitate the examination process. The estimate shown above does not include removal and replacement of any structural steel.

The use of temporary shielding has been considered. However, preliminary temporary shielding evaluations using typical temporary shielding methods and materials suggest that the amount of exposure that would be incurred to install and remove the shielding would be equal to or greater than the amount of exposure that would be saved.

The use of chemical backflushes of the letdown header, which includes the Regenerative Heat Exchanger, have been performed in the past. The goal of these flushes is to reduce dose rates on the letdown header by removing residual radioactivity 'trapped' in the piping during unit cooldowns in preparation for refueling outages. Dose rate data collected before and after these flushes has shown, on average, a 10% to 20% reduction in letdown header piping dose rates. However, no data has been collected to measure the impact of flushing on dose rates in the vicinity of the Regenerative Heat Exchanger. The dose estimate above assumes that the letdown header has been backflushed and comparable dose rate reduction factors in the vicinity of the Regenerative Heat Exchanger are achieved. As of this time, no other viable options for flushing the Regenerative Heat Exchanger have been identified.

#### V. Alternate Examination or Testing:

Given there is no alternative beyond that already required by Code, in lieu of implementing the requirements of the 1989 ASME Boiler and Pressure Vessel Section XI Code Examination Category C-A, it is proposed that the inservice examination and testing being currently performed under the Examination Category C-H (visual, VT-2) "All Pressure Retaining Components" be taken into consideration as a basis for approval for this request.

#### VI. Justification for the Granting of Relief:

Approval of the alternative testing provided by this request for relief would significantly save company resources and reduce unnecessary radiological exposure to plant personnel when complying with the volumetric examination requirements without decreasing the confidence level in the operability of the Regenerative Heat Exchanger.

The alternative testing would not result in reduction in the safety of life or property for the following reasons:

The Regenerative Heat Exchanger and associated system piping are designed and constructed to have a low probability of failure throughout their design life. The heat exchanger is constructed to ASME Section III requirements, and its associated system piping is constructed to Duke Class B, ASME Class 2 requirements.

McGuire Technical Specifications place conservative limits on the amount of reactor coolant leakage allowed during system operation. The reactor coolant leak detection system is in place to detect any variation in the reactor coolant water inventory, including the water present in both the tube and shell side of the Regenerative Heat Exchanger, as well as its associated piping. Any weld failure would be detected by the reactor coolant leak detection system, and procedures and automatic system actions are in place to assure that the heat exchanger would be isolated.

The Regenerative Heat Exchanger is isolable from the reactor coolant by valves operated from the Control Room, several of which receive automatic closure signals. The shell side of the heat exchanger is isolable from the reactor coolant system by two fail closed air operated gate valves in series. These valves are operated from the Control Room and also automatically close on a low reactor coolant system pressurizer level, which would be present with a significant leak. The tube side is isolable from the reactor coolant system by two flowpaths each with check valves in series with an air operated gate valve controlled from the Control Room. The tube side is isolable from the high pressure charging system by two motor operated gate valves in series, which are controlled from the Control Room and automatically close on a Safety Injection Signal, which would be present with a significant leak.

The Regenerative Heat Exchanger is located inside the Containment Building, which is designed to contain any leak.

#### VII. Implementation Schedule:

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During the second interval, the Regenerative Heat Exchanger Pressure testing examinations will be scheduled and performed in accordance with the requirements of Table IWC-2500-1 Examination Category C-H. The Pressure Testing examination schedules are shown below.

UNIT 1

| TEST       | NUMBER         | DATE            | END OF<br>CYCLE | PERIOD                 |
|------------|----------------|-----------------|-----------------|------------------------|
| Leak Test  | C07.030.016    | 10/01/94        | 9               | 1st Period             |
| Leak Test  | C07.030.016    | 01/23/96        | 10              | 2 <sup>nd</sup> Period |
| Hydro Test | C07.040.007    | To Be Done      | 13 and 14       | 3 <sup>rd</sup> Period |
|            |                | UNIT 2          |                 |                        |
| TEST       | ITEM<br>NUMBER | INSPECTION DATE | END OF<br>CYCLE | PERIOD                 |
| Leak Test  | C07.030.039    | 05/09/96        | 9 and 10        | 1 <sup>st</sup> Period |
| Leak Test  | C07.030.039    | To Be Done      | 14 and 15       | 3 <sup>rd</sup> Period |
| Hydro Test | C07.040.007    | To Be Done      | 11, 12 or 13    | 2 <sup>nd</sup> Period |

The following individuals were involved in the development of this request for relief. James R. Puckett (ALARA Specialist) developed dose estimates for Regenerative Heat. Pete L. Schuerger (Design Engineering McGuire) gave design justification for granting of relief. Gary Underwood (Inservice Inspection McGuire) wrote request for relief and addressed code requirements.

#### Attachment:

Sub-Assembly and Details Drawing of Regenerative Heat Exchanger

Evaluated By: Lay Underwood Date 7/9/98

Reviewed By: Review Rhyne Date 7/13/98

Approved By: Date 7/13/98

#### Duke Energy Corporation

#### Station McGuire Unit 1 & 2

#### SECOND 10-YEAR INTERVAL REQUEST FOR RELIEF NO. 98-003

Pursuant to 10CFR50.55a (a)(3) (ii), Duke Energy Corporation has determined that compliance with the specified code requirements results in hardship or unusual difficulty and conformance with the examination requirements of the ASME Section XI requirements is not practical. This requirement would present hardship or unusual difficulty without a compensating increase in the level of quality and safety. Accordingly information is being submitted in support of our determination and a request is being sought for relief from the applicable ASME Section XI requirement(s).

#### I. System / Component(s) for Which Relief is Requested:

Safety-related ASME Section XI Code Class 2 Regenerative Heat Exchanger Head Circumferential and Tubesheet-to-Shell welds. There are a total of twelve welds per unit as described in Request for Relief <u>98-002</u>.

#### II. Code Requirement:

The 1989 ASME Boiler and Pressure Vessel Section XI Code, Subarticle IWC-2400, Inspection Schedule; Paragraph IWC-2412 Inspection Program B. "The required examinations in each examination category shall be completed during each inspection interval in accordance with Table IWC-2412-1".

#### III. Code Requirement from which Relief is Requested:

Relief is requested from the above requirements of paragraph IWC-2412 and Table IWC-2412-1 as a result of Request for Relief <u>98-002</u>.

#### IV. Basis for Relief

#### (Unit 1) Examination Category C-A

Due to extremely high radiation in the area of the Regenerative Heat Exchanger(s), the minimum percentages for the second period and the end of interval totals can't be met. In Examination Category C-A, the Regenerative Heat Exchanger involves twelve (12) of the twenty-three (23) exams scheduled for examination during the second interval.

The Second Period minimum of 50 percent will not be met due to the elimination of 4 scheduled exams (9 complete/23 total=39.13%).

The Second Interval minimum of 100 percent will not be met due to the elimination of twelve (12) scheduled exams (9 complete + 2 more scheduled/23 total=47.82%).

For the Second Interval, <u>excluding</u> twelve (12) Regenerative Heat Exchanger exams, a total of eleven (11) examinations can be done for this code category. This examination total would leave the final percentage for Examination Category C-A at 11/23=47.82%, not 100% as required by the Section XI Code, Table IWC-2412-1.

#### (Unit 2) Examination Category C-A

Due to extremely high radiation in the area of the Regenerative Heat Exchanger(s), the minimum percentages for the second period and the end of interval totals can't be met. In Examination Category C-A, the Regenerative Heat Exchanger involves twelve (12) of the twenty-five (25) exams scheduled during the second interval.

The Second Period minimum of 50 percent will not be met due to the elimination of 4 scheduled exams (3 complete + 5 more scheduled/25 total=32.00%).

The Second Interval minimum of 100 percent will not be met due to the elimination of twelve (12) scheduled exams (3 complete + 10 more scheduled/25 total=52.00%).

For the Second Interval, excluding the twelve (12) Regenerative Heat Exchanger exams, a total of thirteen (13) examinations can be done for this code category. This examination total would leave the final percentage for Examination Category C-A at 13/25=52.00%, not 100% as required by the Section XI Code, Table IWC-2412-1.

#### V. Alternate Examination or Testing:

All examinations scheduled under the requirements of the 1989 ASME Boiler and Pressure Vessel Section XI Code, Table IWC-2500-1, Examination Category C-A will be done to these requirements with the exception of the Regenerative Heat Exchangers, therefore, no similar equipment welds can be examined as an alternative. In the case of the Regenerative Heat Exchangers it is proposed that the testing being performed under Examination Category C-H "All Pressure Retaining Components" be taken into consideration as a basis for approval for this request, reference Request for Relief 98-002.

VI. Justification for the Granting of Relief:

Reference Request for Relief 98-002.

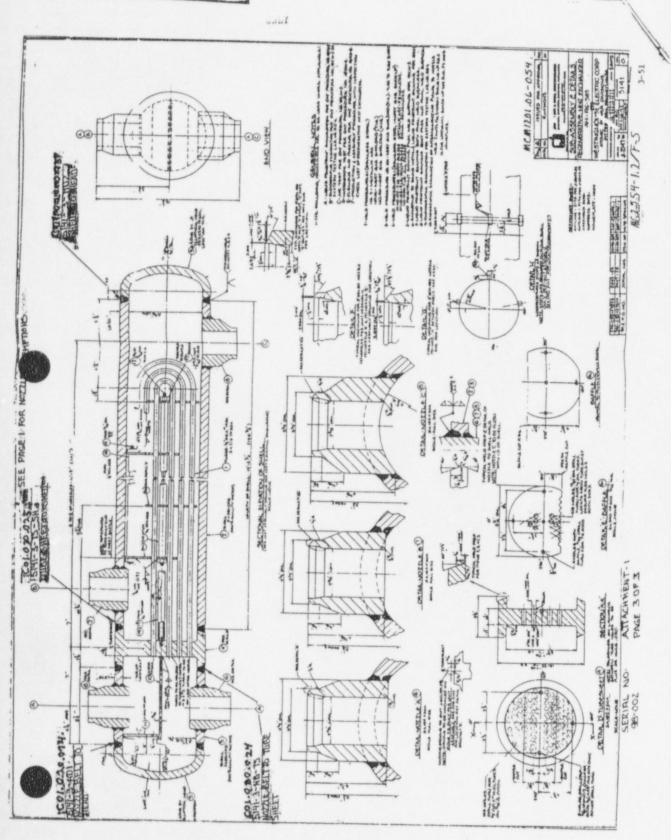
VII. Implementation Schedule:

Reference Request for Relief 98-002.

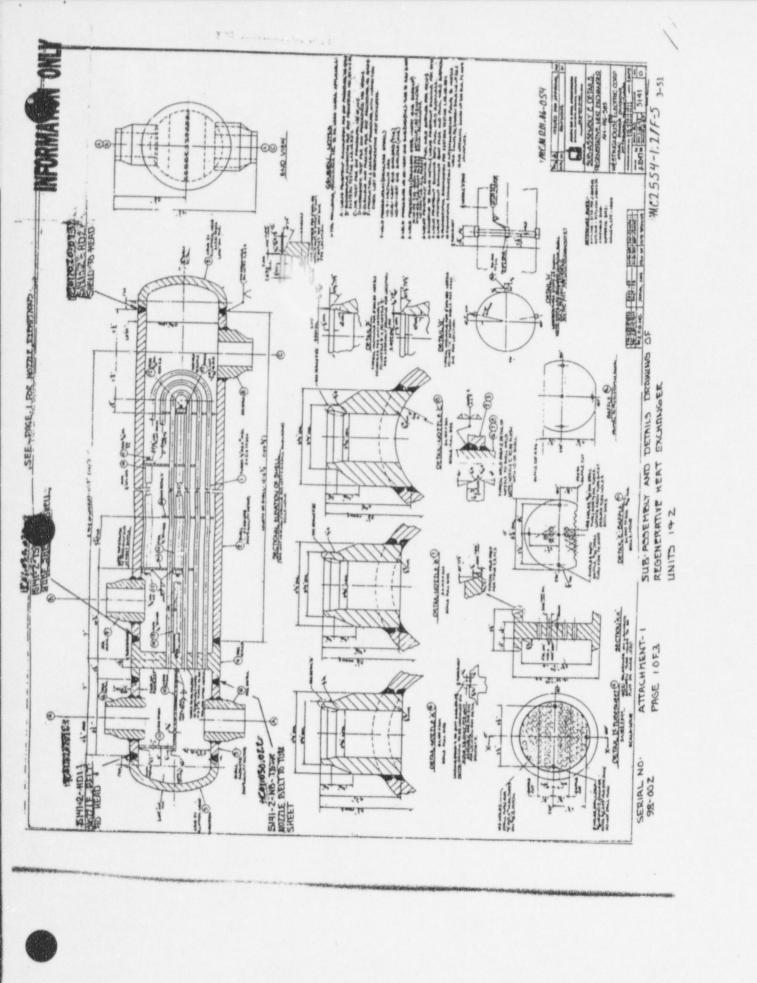
Evaluated By: Jary Underwood Date 7/9/98

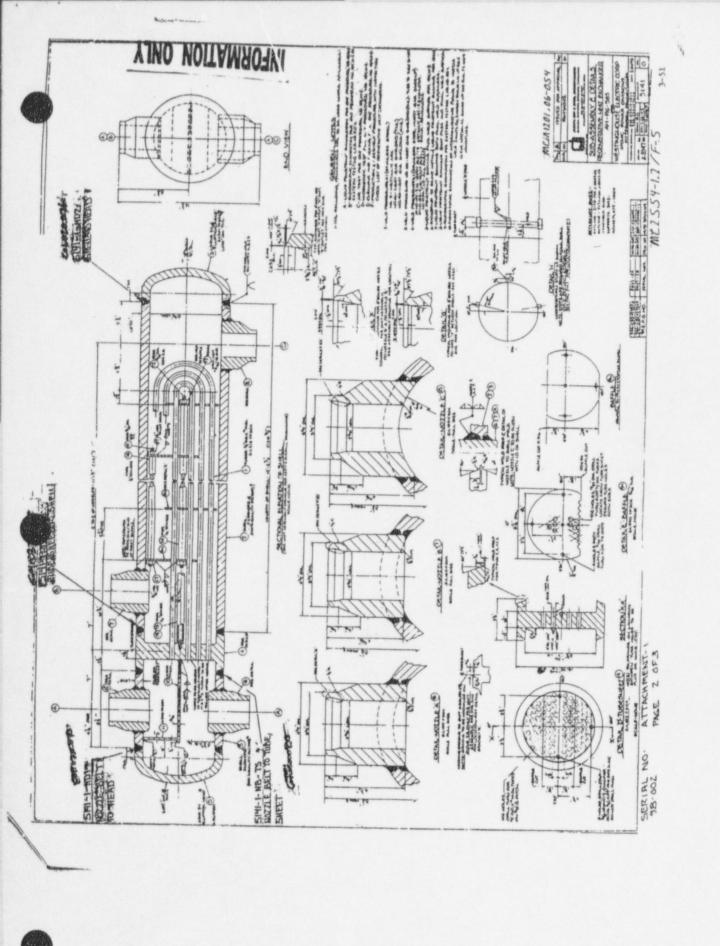
Reviewed By: Review Physics Date 7/13/98

Approved By: Date 7/13/98



NFORMATION ONLY





### 10.0 Class 1 and 2 Repairs and Replacements

As required by ASME Section XI 1989 Edition, no Addenda, a record of (Form NIS-2) the Class 1 and Class 2 Repairs and Replacements for work performed from May 20, 1997 to July 01, 1998 is provided and is included in this section of the report. The individual work request documents are on file at McGuire Nuclear Station.

| FORM NIS-2 OWNER'S | HEPORT FOR REPAIRS OR REPLACEMENT          |
|--------------------|--|
| As Required By     | The Provisions Of The ASME Code Section XI |

| 1.  | Owner Address:                            | Duke Power Company  |                     |     |                    |     |                  | 1a. | Date _June 25, 1997          |
|-----|---|---|---------------------|-----|--------------------|-----|------------------|-----|------------------------------|
| 2.  |   | 526 S. Church Street, Charlotte, NC 28201-1006  |                     |     |                    |     |                  |     | Sheet 1 of 1                 |
| 2.  | Plant Address:                            | McGuire Nuclear Station  12700 Hagers Ferry Road, Huntersville, NC 28078  |                     |     |                    |     |                  |     |                              |
| 2a. | Unit: ☑1 □2                               | □3 □Shared (specify Units)  |                     |     |                    |     |                  |     |                              |
| 3.  | Work Performed By<br>Address:             | Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006  |                     |     |                    | 3a. | Work Order # : _ | No. | 5077722<br>rganization Job # |
|     | Type Code Symbol                          | Stamp: N/A Authorization No. N/A Expiration Date: N/A   |                     |     |                    | 3b. | NSM or MM #:_    | N   | I/A                          |
| 4.  | (a) Identification of                     | System: NV - Chemical and Volume Control  | 4.                  | (b) | Class of System: _ | Α   |                  |     |                              |
| 5.  | (a) Applicable Con<br>(b) Applicable Edit | struction Code: <u>ASME III</u> 1971 Edition, <u>Summer and Winter Action of Section Xi Utilized for Repairs or Replacements: 1989, N</u> | ddenda,<br>to Adder | nda | N-416-1            |     |                  | Co  | ode Cases                    |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stamped<br>(yes or no) |
| A | 1-NV-VA-0841      | Kerotest    | 95EP0235       | N/A                | ref PO#<br>MN-0637   | 1995       | ☐ Repaired,<br>☐ Replaced,<br>☑Replacement  | □ No<br>☑Yes                     |
| В | 1-NV-VA-0841      | Kerotest    | SVF1-7         | 16708              | V File#<br>V0187     | 1977       | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No<br>☑Yes                     |
| С |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                       |
| E |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No                             |

#### Form NIS-2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

|    | and Dady Cover   |
|----|--|
| 7. | Description of Work Cut out and replaced with a new valve and Body Cover.  |
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☑Other ☐ Exempt☐  |
| 9. | Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F Remarks Leak test performed on W/O 96071343/01  |
|    | (Applicable Manufacturer's Data Records to be attached)  |
|    | We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 6/25, 19 97 Owner of Owner's Designee, Title   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2299 to 71797; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  Commissions NB778, NC853, N - Z National Board, State, Province and Endorsements  Date 7-17, 1997 |

### FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of \_\_2

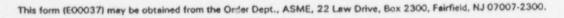
### BM/IP INTERNATIONAL INC PUMP DIV. LOS ANGELES OPERATION

Manufactured and certified by 2300 EAST VERNON AVENUE, VERNON, CA 90058

(name and address of N Certificate Holder)

- 2. Manufactured for DUKE POWER CO. McGUIRE SITE 13225 HAGERS FERRY RD HWY 73 HUNTERSVILLE, NC 28078-8985 (name and address of Furchaser)
- 3. Location of Installation DUKE FOWER CO. McGUIRE SITE 13225 HAGERS FERRY RD HWY 73 HUNTERSVILLE, NC 28078-8985
- (name and address) N/A 4. Model No., Series No., or Type CHPCK \_\_ Drawing DP-D-9911-(1) Rev. \_ N/A 1971 WINTER 1971 5. ASME Code, Section III, Division 1: (edition) (addenda date) (class) (Code Case no.) VALVE 2 2 6. Pump or valve Nominal inlet size. Outlet size . (in.) (in.) SA182 TYPE 316 N/A SA479 TYPE 316 N/A 7. Material: Body Bonnet Disk Bolting (a) (b) (c) (d) (e) Cert. Nat'l Body Bonnet Disk Holder's Board Serial Serial Serial Serial No. No. No. No. No. N/A 95EP0231 313747 SMI N/A " 3753 SNI 95EP0232 N/A 313747 SN2 N/A 1753 SN2 95EP0233 N/A 313747B SN3 N/A 313753 SN3 N/A 95EP0234 313747 SN4 N/A 313753 SN4 95EP0235 A/H 313747 SN5 N/A 313753 SN5 95EP0236 N/A 313747 SN6 N/A 313753 SN6 95EP0237 N/A N/A 313747 SN7 313753 SN7 95EP0238 N/A 313753 SN8 313747A SNS N/A 95EP0239 N/A 313747 SN9 N/A 313753 SN9 95EP0240 N/A 313747A SN10 N/A : 313753 SNIO

<sup>\*</sup> Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 % × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



Certificate Holder's Serial No. 95EP0240

|     |   | 600 100  | 0 00   | or valve pressu   | re class 1   | 500#   |
|-----|---|--|--|---|--|--|
| 5.  | Design conditions   | (pressure) psi   | emperature)  | or valve pressu   | ic class   |  |
|     | Cold working procesure  | 3600 psi at 10   | NoE  |   |  |  |
|     | Cold working pressure   | psi at it  | ~ '  |   |  |  |
|     | Hydrostatic test 5400-  | 5450 psi. Disk differen  | tial test pressure   | 3960-4010   |  | psi  |
|     | 117 51 55 15 15 15 15 15 15 15 15 15 15 15  |  |  |   |  |  |
|     | Remarks: MATERIAL CO  | VER: SA182 TYPE 316  |  |   |  |  |
|     | CERT HOLDERS SN   | COVER SN   | CERT HOLDE   | RS SN   | COVER S  | N  |
|     | 95EP0231  | 313751 SN1   | 95EP0236   |   | 313751   | SN6  |
|     | 95EP0232  | 313751 SN2   | 95EP0237   |   | 313751   | SN7  |
|     | 95EP0233  | 313751 SX3   | 95EP0238   |   | 313751   | SN8  |
|     | 95EP0234  | 313751 SN4   | 95EP0239   |   | 313751   | SN9  |
|     | 95EP0235  | 313751 SN5   | 95EP0240   |   | 313751   | SN10   |
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| ε   | Date 8/28/95 Nam  | e BR/IP INTERNATIONAL I  | S S  | igned   | sthorized repres   | entatival  |
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| *** | -   | **   |  |   |  |  |
|     |   | CERTIFIC   | ATE OF INSPECTION  | V   |  |  |
|     |   |  |  |   |  |  |
| 1   | , the undersigned, holding  | a valid commission issued  | by the National Boa  | of Boiler and   | CET MITTIAL  | INS. CO.   |
|     | the State or Province of  | CALIFORNIA   | and emp  | loyed by manner   |  |  |
| 1   |   | Special approach to the state of the state o |  |   | described to   | this Date Deport of  |
|     | NORSKOOD, KASS.   |  | have inspected the   |   |  |  |
|     | 8/29/95   | , and state that to the  | have inspected the<br>he best of my know   | ledge and belief  |  |  |
|     | 8/29/95   |  | have inspected the<br>he best of my know<br>ME Code, Section III,  | ledge and belief<br>Division 1.   | , the Certifica  | te Holder has con  |
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|     | structed this pump, or valve<br>By signing this certificate,<br>component described in this | and state that to the state in accordance with the ASI meither the inspector nor his so Data Report. Furthermore, it is controlled the state of any known and st | heve inspected the he best of my know ME Code, Section III, *FACTORY employer makes an heither the inspector arising from or commissions | ledge and belief<br>Division 1.<br>MUTUAL ENGLY<br>warranty, exponer his employed<br>connected with the | , the Certification ASSESSESSES or implemental be liable in the control of the co | OCIATION  ied, concerning the e in any manner for  |



### BW/IP International, Inc.

Vaives Pump Division

2300 East Vernon Avenue Vernon California 90058 Telephone 213 587 6171 Fax 213 587 8668

### CERTIFICATE OF COMPLIANCE/CONFORMANCE

| DATE   |   | AUG. 29, 1995   |   |   |
|--|---|---|---|---|
| CUSTOME  | R   | DUKE POWER COCC.  |   |   |
| CUSTOME  | R P.O. NO   | MN637   |   |   |
|  |   | 95EP0231 THRU 95EP0240  |   |   |
| MANUFACE<br>SPECIFIE<br>ORIGINAL<br>EQUIVALE<br>THE ORIGINAL   | TURED, TESTED IN YOUR LLY FURNISE ENT IN FORM GINAL EQUIREM.    | CERTIFY THAT ALL PARTED AND INSPECTED TO REPURCHASE ORDER AND HED IN DESIGN, MATER FIT AND FUNCTION AND PMENT FURNISHED.  EMENTS OF YOUR PURCHASE SESS OTHERWISE NOTED HE | THE SPECIFICATION MEET OR EXCEED TAL AND WORKMAN ARE COMPLETELY I | ONS AND/OR DRAWINGS QUALITY OF PARTS NSHIP. PARTS ARE NTERCHANGEABLE WITH |
| P.O.<br>ITEM   | QTY.<br>SHIP  | DESCRIPTION   | PART NO.  | CUSTOMER I.D./TAG NO.   |
| 001  | 10  | 2-1500# CHECK VALVE   | 72586894  | 235100527N  |
|  |   |   | DP-D-9911-(1  | .)  |
|  |   | BODY: SA182 TYPE 31   | 6   |   |
|  |   | DISC: SA479 TYPE 31   | 6   |   |
|  |   | COVER: SA182 TYPE 3   |   | DUVE DOWED COMPANY  |
|  |   |   |   | DUKE POWER COMPANY  |
|  | 2   |   |   | CA RECURDS APPROVED   |
|  |   |   | -   | A R Harrett  QA REPRESENTATIVE  |
| MCS  | 5-1205.01-00-   | 0001 RVSN 016   |   | DATE 9/28/95  |
| Managara Principal Constitution of Constitutio of Constitution of Constitution of Constitution of Constitution | Whether wasterness, my age assess to see the rest age to appear | ED UNDER OUR NUCLEAR Q.   | A. PROGRAM. QUAI  | MC42771<br>LITY MANUAL 2ND. ED.   |
| REV. 4   | DATED 04/2  | 1/1993.   |   |   |
| )  |   |   | JOHN TRAVERS  |   |

QUALITY ENGINEER

|  | Insp   | ection                             | n Report   |  | Ref. No.                                |
|--|--|------------------------------------|--|--|---|
| CUSTOMER   |  |                                    | JOB NO.  | 95EP02   | 35                                      |
| PROJECT  | A A A C C C C C C C C C C C C C C C C C  |                                    | CUSTOMER   |  |   |
|  |  |                                    | CRIPTION   |  |   |
| R.S. No3/3764  | Op. No   | 50                                 | )  | _ Drg. No. <u>D</u> 2  | D-D-9911                                |
| Part Name VALVE ASSE   | Embly .  |                                    |  | _ Part No. 75  | 72586894                                |
| Heat/Lot/Batch No.   | /  |                                    |  |  |   |
| P.O./O.O.R. No   |  |                                    |  |  |   |
|  | INSPEC   | TION                               | DESCRIPTION  |  |   |
| Visual ⊠ Dimensional □   | Tabulation   | Weldi                              | ng 🗆 Baland  | e   Hydrot   | est 🛭 Hardness 🗆                        |
| Dye Penetrant   Magnetic   | THE RESIDENCE OF THE PARTY OF T | NAME AND ADDRESS OF TAXABLE PARTY. | ALTERNATION OF THE PROPERTY OF | Oll asoliic Li   | Alloy 10 G                              |
|  |  | THE RESERVE OF THE PERSON NAMED IN | N RESULTS  | Annual and the community of the production of community community community community community and community commun |   |
| Floute Sheet Qty/  |  |                                    | Qty. Rejecte   | d  | NCMR No.                                |
| Weldment No./Description   | 1028 W 17 540 - 75   |                                    |  | *  |   |
| Weld Procedure No.:  | Rev  |                                    | Wald (   | Oper   |   |
| Weld Filler Metal Type   |  | Heat .                             |  | Size _   |   |
| Hardness Value   |  |                                    |  | Sca  | le                                      |
| The state of Party of | 10017  |                                    | Pressur  | e 540  | 0/5450                                  |
| Hydrotest Performed By<br>Procedure No. 7473   | Pau  | 5                                  | Time At Pre  | essure /d  | OMIN                                    |
| Part Temp. 790   | Nev  |                                    | Water Temp.  | 79°F   |   |
| Gauge No.: 29-   | 54   |                                    |  |  |   |
| Gauge Range O- 10  | 000 PSIG   |                                    |  |  |   |
| Date Calibrated 08 - 6   | 25-95  |                                    |  |  | 144                                     |
| THE RESIDENCE OF RESIDENCE AND ADDRESS OF THE PROPERTY OF THE  |  |                                    | ***************************************  | De   | ev                                      |
| NDE Procedure  |  |                                    |  | ne   | ΑΥ.                                     |
| Batch No.  |  |                                    |  | CONTRACTOR OF A SAME TO SERVICE AND SERVICE OF SERVICE SERVICES.   |   |
| Extent Of Examination  |  |                                    |  |  | 23.00.000000000000000000000000000000000 |
| Method of the state and the st |  |                                    |  |  |   |
|  |  | A A SECURITY OF PERSONS ASSESSED.  | . /  | - 1/2.1-0  | 1.00001                                 |
| Remarks HY DEOSTATION ACTUAL NO GENERAL  | 8hell Te   | 57                                 | NO THAKA GE  | HIOWERS  | 1 10111110                              |
| ACTUAL NO KEAKA  | EX / 10MIN   |                                    |  |  |   |
|  |  |                                    |  |  |   |
| Inspection Or Test Performed/  | Witnessed/Accept   | ted By:                            |  |  |   |
|  | NI   |                                    | CUSTOMER   |  |   |
| ( and )  |  |                                    |  |  |   |
| AUG 2 5 1995   | ate  |                                    | Date   |  |   |
| THE PROPERTY AND ADDRESS AND ADDRESS OF THE PARTY OF THE  |  |                                    |  |  |   |

| 1. | Owner Address:        | Duke Power Company   | 1a. Da           | ite 6/11/97               |
|----|-----------------------|--|------------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | eet 1 of 1                |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                  |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                  |                           |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |                  |                           |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 96046449                  |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM #  | N/A                       |
| 4. | (a) Identification of | f System: NI 4. (b) Class of System:                                       | _A               |                           |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1  | Code Cases       |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                  |                           |
| 6. | Identification of Co  | emponents Repaired or Replaced and Replacement Components:                 |                  |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1N2-169           | KEROTEST     | ADF6-2          | 5850               | N/A                  | 1975       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No  ⊠ Yes                      |
| В | 1NI-169           | KEROTEST     | 95EP0236        | N/A                | N/A                  | 1995       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ☑ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| E |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |
| F |                   |              |                 |                    |                      |            | Replaced, Replaced, Replaced          | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

|  | 345 & 346  |  |  |  |   |  |   |
|--|--|--|--|--|---|--|---|
| . Test Conducted :   | Hydrostatic  | Præumatic  | □ Nom  | Operating Press.   | ⊠ Oth   | er 🗇   | Exempt [  |
|  | Pressure   | 50   | psig   | Test Temp  | 150   | °F   |   |
|  | Pressure   |  | psig   | Test Temp  |   | °F   |   |
|  | Pressure   |  | psig   | Test Temp  |   | °F   |   |
| . Remarks :  |  |  |  |  |   |  |   |
|  |  |  |  |  |   |  |   |
|  | (Applicat  | ole Manufacture  | r's Data Rec   | ords to be attached)   | T 1000 - |  |   |
| the rules of the AS  | ME Code. Section   | n VI   |  |  |   |  |   |
| Type Code Symbol Certificate of Auth Signed F.R. S   | ol Stamp <u>N/A</u><br>horization No. <u>N/</u><br>Sorrow Exec. Sup  | 'A   | Conoce   |  | ration Dat  | e <u>N//</u>   |   |
| I, the undersigned, Vessel Inspectors of Hartford Conne period 2-18-0 Owner has perform accordance with the By signing this cer implied, concerning Furthermore, neith   | CERTIFIC  holding a valid cand the State or Poeticut have inspective have inspective to be requirements of the examinations are requirements of the examination are the Inspector in the Inspecto | ATE OF III commission is rovidence of the compart of ASME Code Inspector in and correction his employed.                                 | NSERVIC<br>ssued by the<br>North Car<br>ponents de<br>ate that to<br>porrective made, Section<br>for his empetive measure<br>byer shall be | CE INSPECTION TO THE National Board Tolina and employer scribed in this Own the best of my know the best o | of Boiler ed by HSI mer's Repowledge a in this Owner anty, the Owner nner for a   | and PBI and ort du nd bel wner's express's Repny per | ressure I Companing the lief, the Report in liesed or lort.   |
| I, the undersigned. Vessel Inspectors of Hartford Conneperiod 2-18-0 Owner has perform accordance with the By signing this certain implied, concerning the signing the second accordance with the signing the second accordance with the signing the second accordance with the signing this certain plied, concerning the second accordance with the signing this certain plied, concerning the second accordance with the second accorda | CERTIFIC  holding a valid cand the State or Poeticut have inspective have inspective to be requirements of the examinations are requirements of the examination are the Inspector in the Inspecto | ATE OF III commission is rovidence of the compart of ASME Code Inspector in and correction his employed.                                 | NSERVIC<br>ssued by the<br>North Car<br>ponents de<br>ate that to<br>porrective made, Section<br>for his empetive measure<br>byer shall be | CE INSPECTION TO THE National Board Tolina and employer scribed in this Own the best of my know the best o | of Boiler ed by HSI mer's Repowledge a in this Owner anty, the Owner nner for a   | and PBI and ort du nd bel wner's express's Repny per | ressure I Companyring the lief, the Report in liesed or lort. |
| I, the undersigned. Vessel Inspectors of Hartford Conneperiod 2-18-0 Owner has perform accordance with the By signing this certain furthermore, neith  | CERTIFIC  holding a valid cand the State or Poeticut have inspective have inspective to be requirements of the examinations are requirements of the examination are the Inspector in the Inspecto | ATE OF III commission is rovidence of cted the comment of the comment of ASME Code Inspector in and correction his employed kind arising | NSERVIC<br>ssued by the<br>North Car<br>ponents de<br>ate that to<br>porrective made, Section<br>for his empetive measure<br>byer shall be | CE INSPECTION TO THE National Board Tolina and employer scribed in this Own the best of my know the best o | of Boiler<br>ed by HSI<br>ener's Rep<br>owledge a<br>in this Owner<br>and Owner<br>onner for a<br>inspection  | and PBI and ort du nd bel wner's express's Repny per | ressure I Companing the lief, the Report in liesed or lort.   |



BW/IP International, Inc.

Pump Division

East Vernon Avenue

AUG. 29, 1995

Vernon California 90058

Telephone 213 587 6171 Fax 213 587 8668

### CERTIFICATE OF COMPLIANCE/CONFORMANCE

| DATE   |  | AUG. 29, 1995  |   |   |
|--|--|--|---|---|
| CUSTOME  | IR   | DUKE FOWER CO.   |   |   |
| CUSTOME  | R P.O. NO.   | MN637  |   |   |
| BW/IP J  | OB NO  | 95EP0231 THRU 95EP0240   |   |   |
| MANUFAC<br>SPECIFI<br>ORIGINA<br>EQUIVAL<br>THE ORI  | TURED, TES ED IN YOU LLY FURNIE ENT IN FORM GINAL EQUIT THE REQUIR   | TED AND INSPECTED TO REPURCHASE ORDER AND SHED IN DESIGN, MATER, FIT AND FUNCTION AND PURCHASE OF YOUR PURCHASES OTHERWISE NOTED H | THE SPECIFICA<br>MEET OR EXC<br>RIAL AND WORK<br>ARE COMPLETEL<br>SE ORDER HAVE | TIONS AND/OR DRAWINGS<br>EED QUALITY OF PARTS<br>MANSHIP. PARTS ARE<br>Y INTERCHANGEABLE WITH |
| P.O.   | QTY.<br>SHIP   | DESCRIPTION  | PART N  | CUSTOMER  |
|  |  | 2-1500# CHECK VALVE  | 72586894  |   |
|  |  |  | DP-D-9911   | -(1)  |
|  |  | BODY: SA182 TYPE 31  | 16  |   |
|  |  | DISC: SA479 TYPE 31  | 16  |   |
| ACCORDANGE AND CONTRACTOR OF THE PARTY OF TH | and out of the state of the sta | COVER: SA182 TYPE 3  | 316   | DUKE POWER COMPANY  |
| Participa and Control of Control  | STATE AND ADDRESS OF THE PARTY  |  |   | QA RECORDS APPROVED   |
|  |  |  |   | M. R. Harrett  GA REPRESENTATIVE  |
| MCS  | 5-1205.01-00-0   | 0001 RVSN 016  |   | DATE 9/28/95<br>MC 42771  |
|  |  | D UNDER OUR NUCLEAR Q.   | A. PROGRAM. QU  |   |
| REV. 4   | DATED 04/21  | ./1993.  | JOHN TRAVERS<br>QUALITY ENGINE  | CER   |

### RM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of \_2

### BW/IP INTERNATIONAL INC PUMP DIV. LOS ANGELES OPERATION 1. Manufactured and certified by 2300 EAST VERMON AVENUE, VERMON, CA 90058

(name and address of N Certificate Holder)

2. Manufactured for DUKE POWER CO. McGUIRE SITE 13225 HAGERS FERRY RD BRY 73 HUNTERSVILLE, NC 28078-8985

(name and address of Purchaser) 3-8985

|                   |                       | Drawle   | WINTER 19     |   |                   | CRN_N/A                                 |
|-------------------|-----------------------|--|---------------|---|-------------------|---|
| 6. ASME Code, Sec | tion III, Division 1: | (edition)  | (øddenda date | MATERIAL GLASSIFICATION AND ADDRESS OF THE PARTY NAMED IN |                   | (Code Case no                           |
|                   | VALVE                 |  | 2             | Outlet size   | 2                 |   |
| 6. Pump or valve  |                       | Nominal inlet size   | (in.)         |   | (in.)             |   |
| 7. Material: Body | SA182 TYPE 316        | BonnetN/A  | Disk .        | SA479 TYPE 316  | Bolting .         | N/A                                     |
| (a)               | (b)                   |  | (c)           | (d)   |                   | (e)                                     |
| Cert.             | Nat'l                 | E  | lody          | Bonnet  |                   | Disk                                    |
| Holder's          | Board                 | S  | erial         | Serial  |                   | Serial                                  |
| Serial No.        | No.                   |  | No.           | No.   |                   | No.                                     |
| 95EP0231          | . N/A                 | 31374  | 7 SN1         | N/A   |                   | 313753 SWI                              |
| 95EP0232          | N/A                   | Charles of the Contract of the | 7 SN2         | N/A   |                   | 313753 SN2                              |
| 95EP0233          | N/A                   | SALES AND ADDRESS OF THE PARTY  | 7B SN3        | N/A   |                   | 313753 SN3                              |
| 95EP0234          | . N/A                 | 31374  | 7 SN4         | NiA   |                   | 313753 SN4                              |
| 95EP0235          | N/A                   | 31374  | 7 SN5         | N/A   |                   | 313753 585                              |
| 95EP0236          | N/A                   | 31374  | 7 SN6         | N/A   |                   | 313753 SN6                              |
| 95EP0237          | N/A                   | 31374  | 7 SN7         | N/A   |                   | 313753 SN7                              |
| 95EP0238          | N/A                   | 31374  | 17). SN8      | N/A   |                   | 313753 SN8                              |
| 95EP0239          | N/A                   | 31374  | 7 SN9         | N/A   |                   | 313753 SN9                              |
| 95EP0240          | N/A                   | 31374  | 7A SN10       | N/A   |                   | 313753 SNIO                             |
|                   |                       |  |               | -   |                   |   |
|                   |                       |  |               |   | Comment on Second | 7                                       |
|                   |                       |  |               | -   |                   |   |
|                   |                       |  |               |   |                   |   |
|                   |                       |  |               |   |                   |   |
|                   |                       |  |               |   |                   | *                                       |
|                   |                       |  |               |   |                   | ,                                       |
|                   |                       |  | _             | -   | -                 |   |
|                   |                       |  |               | · ·   | -                 | *************************************** |
|                   |                       |  |               |   | -                 |   |

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. 95EP0240 3600 1500# 8. Design conditions °F or valve pressure class (pressure) (temperature) 3600 9. Cold working pressure psi at 100°F 10. Hydrostatic test ... 5400-5450 psi. Disk differential test pressure \_\_\_\_3960-4010 psi Remarks: MATERIA CERT HOLDERS SN MATERIAL COVER: SA182 TYPE 316 COVER SN CERT HOLDERS SN COVER SN 95EF0231 313751 SNI 95EP0236 313751 SN6 95EP0232 95EP0237 313751 SN2 313751 SN7 95EP0233 313751 SN3 95EP0238 313751 SN8 95EP0234 313751 SN4 95EP0239 313751 SN9 95EP0235 313751 SN5 95EP0240 313751 SN10 CERTIFICATION OF DESIGN ROBERT EUGENE MILLER Design Specification certified by P.E. State N.C. Reg. no. 4860 DAVID A. WURANGIAN Design Report certified by . P.E. State \_\_CA. Reg. no. M19547 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N-1130 N Certificate of Authorization No. **JUNE 10, 1996** Explre BR/IP INTERNATIONAL INC Signed (N Certificate Holder) (authorized representative) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of . CALIFORNIA and employed by APKWRIGHT MUTUAL INS. CO. HORROOD, MASS have inspected the pump, or valve, described in this Data Report on and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1. \*FACTORY MUTUAL ENGINEERING ASSOCIATION By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this 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.

ommissions

[Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

| 1.  | Owner Address:        | Duke Power Company   |                         | 1a. D           | ate 06/18/98             |
|-----|-----------------------|--|-------------------------|-----------------|--------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                 |                         | Sh              | eet 1 of 1               |
| 2.  | Plant Address:        | Mcguire Nuclear Station  |                         |                 |                          |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                |                         |                 |                          |
| 2a. | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)                                       |                         |                 |                          |
| 3.  | Work Performed B      | y: Duke Power Company  |                         | 3a. Work Order# | 98027163                 |
|     | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                 |                         |                 | Repair Organization Job# |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A          |                         | 3b. NSM or MM # | MM-8400                  |
| 4.  | (a) Identification of | System: NC   | 4. (b) Class of System: | Α               |                          |
| 5.  | (a) Applicable Con    | struction Code: ASME III 1971 Edition, Summer and Winter       | Addenda, N/A            | Code Cases      |                          |
|     | (b) Applicable Edit   | ion of Section XI Utilizing for Repairs or Replacements: 1989, | No Addenda              |                 |                          |
| 6.  | Identification of Co  | mponents Repaired or Replaced and Replacement Components:      |                         |                 |                          |

|   | Column 1          | Column 2            | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|---------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.        | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | Valve 1NC-95      | Kerotest            | OCA3-10         | 14845              | 9J-16                | 1977       | ☐ Repaired, ☐ Replaced,               | □ No                             |
| - |                   |                     |                 |                    |                      |            | Replacement                           |                                  |
| В | Valve 1NC-95      | Anderson, Greenwood | 97-38490        | 2615               | 9J-618               | 1998       | ☐ Repaired, ☐ Replaced,               | □ No                             |
|   |                   |                     |                 |                    |                      |            | □ Replacement                         | ☑ Yes                            |
| c | Piping            | Duke Power Co.      | N/A             | 28                 | INC                  | 1981       | ☐ Pepaired, ☐ Replaced,               | □ No                             |
|   |                   |                     |                 |                    |                      |            | □ Replacement                         | ☑ Yes                            |
| D |                   |                     |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
| _ |                   |                     |                 |                    |                      |            | Replacement                           | ☐ Yes                            |
| E |                   |                     |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
| - |                   |                     |                 |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| F |                   |                     |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |                     |                 |                    |                      |            | Replacement                           | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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. 7. Description of work: Replaced Valve and replaced pipe between NC1FW22-1 and 2 8. Test Conducted: Hydrostatic ☑ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempt ☐ 
 Test Temp
 75
 °F

 Test Temp
 °F

 Test Temp
 °F
 2520 Pressure psig psig Pressure psig Pressure 9. Remarks: (Applicable Manufacturer's Data Records to be attached) CERTIFICATE OF COMPLIANCE We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A F.R. Sorrow Exec. Supp. Larvey Date 06/18 Signed Owner or Owner's Design CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 549-98 to 624-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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. R. D. Klein Stoff un Inspector's Signature Commissions NB7728, NC853, N-I National Board, State, Providence and Endorsements

Date 6-24 1998

PAGE 3

# FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

\$/0 \$463890000.001

P.O. MN27923

Pg. 1 of \_2\_

| 1     | . Manufactured and                     | certified by ANDE            | ERSON, G                                    | REENWOOD &                   | CO., 3              | 950 Greenbr<br>N Certificate Holder | iar.       | Stafford, TX 77                        |
|-------|--|------------------------------|---|------------------------------|---------------------|-------------------------------------|------------|--|
| 2     | . Manufactured for                     | DUKE POWER                   | CO., P.                                     |                              | 5, CHAR             |                                     | 8201       |  |
| 3     | . Location of install                  | ation McGuire S              | station,                                    |                              |                     |                                     | 73,        | Huntersville, N                        |
|       | . Model No., Series                    | Y12B1                        | 8S-8S8S-                                    | (                            | name and add        | 560 Rev                             |            | 28078<br>CRNNA                         |
| 5     | . ASME Code, Sec                       | tion III, Division 1:        | 1980<br>(edition                            |                              | S-82<br>denda date) | (class)                             |            | (Code, Case no.)                       |
| 6     | . Pump or valve                        | Valve                        | Nominal inle                                |                              | 1.)                 | Outlet size                         | 2<br>(in.) |  |
| 7     | . Material: Body                       | SA182-F316                   | Bonnet _S                                   | 1479-316                     | Disk SA             | 217-CA15/HF                         | Bolting    | NA                                     |
|       | (a)<br>Cert.<br>Holder's<br>Serial No. | (b)<br>Nat'l<br>Board<br>No. |   | (c)<br>Body<br>Serial<br>No. |                     | (d)<br>Bonnet<br>Serial<br>No.      | •          | (e)<br>Disk<br>Serial<br>No.           |
| -     | 97-38489                               | 2614                         |   | B243-13                      |                     | B254-4                              |            | B258-19                                |
| -957  | 97-38490                               | 2615                         |   | B255-6                       |                     | B254-2                              |            | B258-23                                |
| -     | 97-38491                               | 2616                         |   | B243-1                       |                     | B254-3                              |            | B258-20                                |
| -     | 97-38492                               | 2617                         |   | B244-2                       |                     | B254-1                              |            | B258-5                                 |
| -     | 97-38493                               | 2618                         |   | B255-8                       |                     | B254-5                              |            | B258-7                                 |
|       |  |                              |   |                              |                     |                                     |            |  |
|       |  |                              |   |                              |                     |                                     |            |  |
| ****  |  |                              | -   |                              |                     |                                     |            |  |
| dense |  | -                            |   |                              |                     |                                     |            |  |
|       |  |                              |   |                              |                     |                                     | -          |  |
| -     |  |                              | -   |                              | -                   |                                     |            |  |
|       |  | -                            |   |                              |                     |                                     |            |  |
|       |  |                              |   |                              |                     |                                     |            | X-000000000000000000000000000000000000 |
|       |  | -                            |   |                              |                     |                                     |            |  |
| -     |  | _                            | OFFICE SECURITION AND SECURITION ASSESSMENT |                              |                     |                                     |            |  |
|       |  |                              | i   |                              |                     |                                     |            |  |

<sup>\*</sup> Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NPV-1 (Back - Pg. 2 of 2 )

97-38489 thru

| Certificate Holder's Serial No. | 97-38493 |
|---------------------------------|----------|
|                                 |          |

|     |   |  | nsi 650                      |                | of or val   | ve pressure    | class          | 1800            |     |
|-----|---|--|------------------------------|----------------|-------------|----------------|----------------|-----------------|-----|
| 8.  | Design conditions                                     | 2675<br>(pressure)                                   | more P31 management three to | erature)       | _ , 0, ,,   | ro picoraire   |                |                 | -   |
| 9.  | Cold working pressure                                 | 4320   | ps. at 100°F                 |                |             |                |                |                 |     |
|     |   |  |                              |                | ,           | 755            |                |                 |     |
| 10. | Hydrostatic test 65                                   | 00°, psi.  | Disk differential            | est pressure   | 4           | 755            |                |                 | psi |
| 11. | Remarks:  |  |                              |                |             |                |                |                 |     |
|     |   |  |                              |                |             |                |                |                 |     |
|     |   |  |                              |                |             |                |                |                 |     |
|     |   |  |                              |                |             |                |                | , ;             |     |
| Г   | Annual Ast recorded annual Spanish of the Art and the | ar 24 abox to ar | CERTIFICATION                | ON OF DESIG    | in          |                |                |                 |     |
|     |   |  |                              |                |             | ec.            |                | 823/4           | 1   |
| De  | esign Specification certifi                           | ed Ly D. G.  | Garner                       | P.E            | . State     | TX             | Reg. no.       | 41731           |     |
| De  | sign Report certified by                              | J. Alan v  | vest                         | P.E            | . State     | 1.0.           | Reg. no.       | 71121           |     |
|     |   |  |                              |                |             |                |                |                 |     |
|     |   |  | CERTIFICATE C                | F COMPLIAN     | NCE         |                |                |                 |     |
|     |   |  |                              |                |             |                |                |                 |     |
| W   | e certify that the stateme                            | ents made in this                                    | report are correct a         | nd that this p | ump or va   | lve conforms   | to the rules   | for construct   | roi |
|     | the ASME Code, Section                                |  | N-2823                       |                |             | Evalens        | 9/10/          | 99              |     |
| N   | Certificate of Authorizations 4/24/98 Name            | on No.   | 11 2023                      |                |             | cxpires        | 00             |                 |     |
| Da  | 10 4/24/98 NAM  | Anderson,  | Greenwood                    | & Co.          | Signed      | losyl          | a.lark         |                 | _   |
| Ua  | 10 -44  | (N   | Certificate Holder)          |                |             | / (authori     | zed represent  | ative)          |     |
|     |   |  |                              |                |             |                |                |                 |     |
|     |   |  |                              |                |             |                |                |                 |     |
|     |   |  | CERTIFICATE (                | OF INSPECTI    | ON          |                |                |                 |     |
|     |   |  |                              |                |             |                |                |                 |     |
|     | the undersigned, holding                              |  | sion issued by the           | National Bo    | ard of Bo   | iller and Pres | sure Vessel    | Inspectors a    | and |
|     | State or Province of                                  | TX   |                              | and em         | iployed by  | C.U.I          | ob a dia ship  | Data Report     |     |
| of  | Boston, MA<br>4.24.98                                 | , and st   | ate that to the bes          |                |             |                |                |                 |     |
| str | ucted this pump, or valve                             | e, in accordance                                     | with the ASME Co             | de, Section II | I, Division | 1.             |                |                 | 1   |
| Ву  | signing this certificate,                             | neither the inspe                                    | ctor nor his emplo           | yer makes ar   | ny warran   | ty, expressed  | or implied,    | concerning t    | the |
| cor | mponent described in thi                              | s Data Report. Fo                                    | erthermore, neither          | the inspecto   | r nor his e | employer shall | l be liable in |                 |     |
| an  | y personal injury or prope                            | orty damage for a                                    | loss of any kind ari         | sing from or   | connected   | with this ins  | pection.       |                 | .   |
| Da  | to 4:24.98 signed                                     | MUJ 4  | Com                          | missions       | ex 8        | O3 A           | B750           | or prov. and no | 0.1 |

(1) For manually operated valves only.

| 1. | Owner Address:        | Duke Power Company   |                      |     | 1a. Da       | nte 06/18/98              |
|----|-----------------------|--|----------------------|-----|--------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                         |                      |     | She          | et 1 of 1                 |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                      |     |              |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                        |                      |     |              |                           |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |                      |     |              |                           |
| 3. | Work Performed B      | y: Duke Power Company  |                      | 3a. | Work Order # | 98027444                  |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                         |                      |     |              | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                  |                      | 3b. | NSM or MM #  | MM-8400                   |
| 4. | (a) Identification of | f System: NC 4.  | (b) Class of System: | Α   |              |                           |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addender      | a, N/A               |     | Code Cases   |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Add | enda                 |     |              |                           |
| 6  | Identification of Co  | imponents Renaired or Replaced and Replacement Components:             |                      |     |              |                           |

|   | Column 1          | Column 2            | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|---------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.        | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | Valve 1NC-106     | Kerotest            | EE1-8           | 5136               | 9J-16                | 1974       | ☐ Repaired, ☑ Replaced, ☐ Replacement | □ No ☑ Yes                       |
| В | Valve 1NC-106     | Anderson, Greenwood | 97-38492        | 2617               | 9J-618               | 1998       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ☑ Yes                      |
| C |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| 0 |                   |                     |                 |                    |                      |            | ☐ Repaired. ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| E |                   |                     |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |
| F |                   |                     |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. | Description of work : Replaced Valve at Weld NC1FW33-1  |
|----|---|
| 8. | Test Conducted: Hydrostatic ☑ Pneumatic □ Nom. Operating Press. □ Other □ Exempt □  |
|    | Pressure 2500 psig Test Temp 76 °F  |
|    | Pressure psig Test Temp °F  |
|    | Pressure psig Test Temp °F  |
| 9. | Remarks:  |
|    | (Applicable Manufacture)'s Date Persons to be attached)   |
|    | (Applicable Manufacturer's Data Records to be attached)   |
|    | We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed F.R. Sorrow Exec. Supp. J. Date 06/18 19 98  Owner or Owner's Designee, Title   |
|    | CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-19-98 to 3-19-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  |
|    | R. D. Klein Marional Board, State, Providence and Endorsements  Date 67.4, 1998   |

PAGE 3

# FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

\$/0 \$463890000.001

P.O. MN27923

Pg. 1 of \_2\_

| Manufactured and   | certified by ANDERSO   | N, GREENWOOD & CO  | dress of N Certificate Holder)   | ar, Stafford, TX 77  |
|--|--|--|--|--|
| 2. Manufactured for _  | DUKE POWER CO.   | P.O. BOX 1015,   | CONTRACTOR SOFT SERVICES SERVI | 201  |
|  |  | (name and addre  | ess of Purchaser)  |  |
| 3. Location of installa  | tion McGuire Stat:   |  |  | 73, Huntersville, N  |
|  | WIODIOG  | (name  | and address)   | 28078  |
| 4. Model No., Series N   | Y12B18S-8  | Drawing N03.6  | 400.560 Rev. C   | CRN_NA   |
|  |  | Part # NO3   |  |  |
| 5. ASME Code, Section  | on III. Division 1: 19   | 980 S-1  |  | NA   |
|  |  | (edition) (addenda   | The second secon | (Code, Case no.)   |
| 6. Pump or valve   | Valve Nomi   | nal inlet size2  | Outlet size  | 2  |
|  |  | (in.)  |  | (in.)  |
| 7. Material: Body St   | A182-F316 Boon   | et SA479-316 Di  | SA217-CA15/HF  | Bolting NA   |
| 7. Motorial. Dody 222  | DOM  | OI MANIA DI  | or marrial treatment   | boiling  |
| (a)  | (b)  | (c)  | (d)  | · (e)  |
| Cert.  | Nat'l  | Body   | Bonnet   | Disk   |
| Holder's   | Board  | Serial   | Serial   | Serial   |
| Serial No.   | No.  | No.  | No.  | No.  |
| 97-38489   | 2614   | B243-13  | B254-4   | B258-19  |
| 97-38490   | 2615   | B255-6   | B254-2   | B258-23  |
| 97-38491   | 2616   | B243-1   | B254-3   | B258-20  |
| 97-38492   | 2617   | B244-2   | B254-1   |  |
| 97-38493   | 2618   | B255-8   |  | B258-5   |
| 21-30495   | 2010   |  | B254-5   | B258-7   |
|  | VERN NO. OF THE PARTY OF THE PA |  | ***************************************  |  |
| SERVICE CONTRACTOR AND ASSESSMENT OF THE PARTY OF THE PAR | A territoria de la companya de la co |  | ***************************************  |  |
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|  | ***************************************  |  | ***************************************  |  |
|  |  | THE RESIDENCE A WINDOWS CONTRACTOR OF THE PARTY OF THE PA | SOUTH COMMERCIAL SECTION OF THE SECT | The second control of the control of |
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| waster and the control of the state of the s |  |  | *************************  | -  |
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|  | ######################################   |  | ***************************************  |  |
|  |  | -  |  | and Annual Deleteration of the Contract of the |
| -  |  |  | ***************************************  | AND DESCRIPTION OF PROPERTY AND |
| ***************************************  |  | ***  |  |  |
| ***************************************  | **************   | -  |  | -  |
| -  | -  |  |  |  |
| -  |  |  |  |  |

<sup>\*</sup> Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NPV-1 (Back - Pg. 2 of 2)

97-38489 thru

Certificate Holder's Serial No. 97-38493

|       | 6   | 2675   | psi                    | 650              | oF or va        | lve pressure o  | lass          | 1800         |        |
|-------|---|--|------------------------|------------------|-----------------|-----------------|---------------|--------------|--------|
| 8.    | Design conditions   | (pressure)   | more by a , assessment | (temperature)    |                 |                 |               |              |        |
|       |   |  |                        | 2005             |                 |                 |               |              |        |
| 9.    | Cold working pressure   | 0 4320   | psi at 1               | 00°F             |                 |                 |               |              |        |
|       | 6   | 5000   |                        |                  |                 | 755             |               |              | pei    |
| 10.   | Hydrostatic test6   | 500 , psi.   | Disk differen          | ntial test press | ure             |                 |               |              | psi    |
|       |   |  |                        |                  |                 |                 |               |              |        |
| 11.   | Remarks:  |  |                        |                  |                 |                 | -             |              |        |
|       |   |  |                        |                  |                 |                 |               |              |        |
|       | ***************************************   |  |                        |                  |                 |                 |               |              |        |
|       | ****  |  |                        |                  |                 |                 |               |              |        |
|       |   |  |                        |                  |                 |                 |               |              | -      |
|       |   |  |                        |                  |                 |                 |               |              |        |
|       |   |  |                        |                  |                 | 1               |               | 1 1          |        |
|       | CONTRACTOR OF THE STATE OF THE |  | CERTIFIC               | CATION OF DE     | SIGN            |                 |               |              |        |
|       |   |  |                        |                  |                 |                 |               |              | 1      |
| De    | sign Specification cert   | ified by D. G.   | Garner                 |                  | P.E. State _    | SC              | Reg. no.      | 8234         |        |
| De    | sign Specification cert<br>sign Report certified by   | J. Alan W  | est                    |                  | P.E. State _    | TX              | Reg. no.      | 41731        |        |
| -     | asign report certified o  | 7  |                        |                  |                 |                 |               |              |        |
|       |   |  |                        |                  |                 |                 |               |              |        |
|       |   |  |                        |                  |                 |                 |               | -            |        |
| -     | ANALOS E PROPERTO PROPERTO DE   | Maria 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | CERTIFICA              | ATE OF COMP      | IANCE           |                 |               |              |        |
|       |   |  | 02                     |                  |                 |                 |               |              |        |
| W     | certify that the staten   | nante made in this s   | enort are corr         | ect and that th  | is pump or va   | lve conforms    | to the rules  | for constru  | ction  |
|       | the ASME Code, Section  |  | aport are con          |                  |                 |                 |               |              |        |
|       |   |  | N-2823                 |                  |                 | Expires         | 9/10/         | 99           |        |
| 14    | te 4/24/98 N  | rtion 140  |                        |                  |                 |                 | 01            | )            |        |
| De    | 4/24/98 N   | Anderson,  | Greenwo                | od & Co.         | Signed          | losest "        | a. lank       | -            |        |
| Ua    | 10 maria and 10   | (N   | Certificate Hole       | ier)             |                 | / fauthoriz     | ed represent  | tative)      |        |
|       |   |  |                        |                  |                 |                 |               |              |        |
|       |   |  |                        |                  |                 |                 |               |              |        |
|       |   |  |                        |                  |                 |                 |               |              |        |
|       |   | COMMENCE AND ADDRESS OF THE PARTY OF THE PAR | CERTIFIC               | ATE OF INSPE     | CTION           |                 |               |              |        |
|       |   |  | CENTIFIC               |                  |                 |                 |               |              |        |
|       | the undersigned, holdi  | na a valid commis  | sion lesued b          | v the National   | Board of Bo     | oiler and Press | sure Vesse    | Inspectors   | and    |
|       | State or Province of _  |  | sion issued b          | and              | employed by     | C.U.I           | .C.           |              |        |
|       | Boston, MA  |  |                        | have inspecte    | d the sums      | or value desc   | rihed in this | Data Reno    | nt on  |
| Oi    | 4.24.95   |  |                        |                  |                 |                 |               |              |        |
| ***** | 7.07.10   |  |                        | e best of my l   |                 |                 | Certificate   | noider rias  | COIL   |
| str   | ucted this pump, or va  | Ive, in accordance   | with the ASM           | E Code, Section  | n III, Division | 11.             |               |              |        |
|       |   |  |                        |                  |                 |                 | as becalled   | noncernia    | a the  |
|       | signing this certificate  |  |                        |                  |                 |                 |               |              |        |
|       | mponent described in t  |  |                        |                  |                 |                 |               | any manne    | at tot |
| an    | y personal injury or pro  | perty damage or a  | ose of any ki          | nd arising from  | or connecte     | d with this ins | pection.      |              | .      |
|       | 4.21.60   | While / K/   | 11/                    |                  | つういく            | 202             | 1075          | 82 A         | 1/     |
| Da    | to 4.24.98 Signer   | MINIOTO  | ula                    | Commissions      | TEAC            | USA             | 15/00         | OL DVOY and  | 00.1   |
|       |   | (Authorized in   | spector) /             |                  | (Net I. Bd. (ir | ncl. endorsemen | ts) and state | or prov. and |        |

(1) For manually operated valves only.

| 1.  | Owner Address:       | Duke Power Company  |     | la. Da       | ate 06/18/98             |
|-----|----------------------|---|-----|--------------|--------------------------|
|     |                      | 526 S. Church Street, Charlotte, NC 28201-1006                            |     | She          | eet 1 of 1               |
| 2.  | Plant Address:       | Mcguire Nuclear Station   |     |              | •                        |
|     |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                           |     |              |                          |
| 2a. | Unit: 🛛 1 🔲 2        | 3 Shared (specify units)  |     |              |                          |
| 3.  | Work Performed B     | y: Duke Power Company   | 3a. | Work Order # | 98027514                 |
|     | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                            |     |              | Repair Organization Job# |
|     | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A                     | 3b. | NSM or MM #  | MM-8400                  |
| 4.  | (a) Identification o | f System: NC 4. (b) Class of System:                                      | Α   |              |                          |
| 5.  | (a) Applicable Con   | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A     |     | Code Cases   |                          |
|     | (b) Applicable Edi   | ion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                          |
| 6.  | Identification of Co | mnonents Renaired or Replaced and Replacement Components:                 |     |              |                          |

|   | Column 1          | Column 2            | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|---------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.        | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | Valve 1NC-253     | Kerotest            | OB5-7           | 14992              | 9J-508               | 1977       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
| В | Valve 1NC-253     | Anderson, Greenwood | 97-38493        | 2618               | 9J-618               | 1998       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| С |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |                     |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| E |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |

| n. | NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provide in x 11 in. (2) information in items 1 through 6 on this report is included on each sheet, is numbered and the number of sheets is recorded at the top of this form.   | and (                               | (3) each shee  |
|----|---|-------------------------------------|--|
|    | Description of work: Replaced Valve at weld NC1. W32-1  |                                     |  |
| -  | Test Conducted: Hydrostatic ☑ Pneumatic ☐ Nom. Operating Press. ☐ Oth   | er 🗆                                | Exempt [   |
|    | Pressure 2520 psig Test Temp 76.3   | °F                                  |  |
|    | Pressure psig Test Temp   | °F                                  |  |
|    | Pressure psig Test Temp   | °F                                  |  |
|    | Remarks :   |                                     |  |
|    |   |                                     |  |
|    |   |                                     |  |
|    | (Applicable Manufacturer's Data Records to be attached)   |                                     |  |
| -  | CERTIFICATE OF COMPLIANCE   | ***********                         | MODE AND INCIDENCE OF VIRGINIA   |
|    | We certify that he statements made in the report are correct and this repair or replacent the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed F.R. Sorrow Exec. Supp. F. R. Sorrow Date 06/18  Owner or Owner's Designee, Title  | te <u>N/</u>                        |  |
| -  |   |                                     |  |
|    | CERTIFICATE OF INSERVICE INSPECTION   | CHEROLOGIC                          | AND DESCRIPTION OF THE PERSON.   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler Vessel Inspectors and the State or Providence of North Carolina and employed by HS of Hartford Connecticut have inspected the components described in this Owner's Reperiod 1975 to 624 %; and state that to the best of my knowledge a Owner has performed examinations and taken corrective measures described in this O accordance with the requirements of ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, implied, concerning the examinations and corrective measures described in the Owner Furthermore, neither the Inspector nor his employer shall be liable in any manner for a or property damage or a loss of any kind arising from or connected with this inspection | BI and be wher' express's Reany per | d I Company<br>uring the<br>elief, the<br>s Report in<br>essed or<br>port. |
|    | R. D. Klein Rollin Commissions NB7728, NC853, N-I   |                                     |  |
|    | Inspector's Signature National Board, State, Provider   | nce and                             | Endorsements   |

PAGE | 3

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*

As Required by the Provisions of the ASME Code, Section III, Division 1

\$/0 \$463890000.001

P.O. MN27923

Pg. 1 of \_2\_

| 1. Manufactured and c  | ertified by ANDERSON,  | GREENWOOD & C   | 0., 3950 Greenbri  | ar, Stafford, TX 774   |
|--|--|---|--|--|
| 2. Manufactured for  | DUKE POWER CO.,  |   | CHARLOTTE, NC 28   |  |
|  | The second secon |   | dress of Purchaser)  |  |
| 3. Location of installati  | on McGuire Statio  | n, 13225 Hager  | s Ferry Rd., Hwy   | 73, Huntersville, NC   |
|  |  | (nam  | ne and address)  | 28078  |
| 4. Model No., Series N   | Y12B18S-8S   | 85-N1 NO3   | 6400.560 Rev. C  |  |
| 4. Model 140., Selles 14   | o., or type  |   | 3.6400.562   | O'III  |
| 5. ASME Code, Sectio   | n III. Division 1:198  |   | -82 1  | NA   |
| o. Asine code, sectio  | the state of the s |   | da date) (class)   | (Code,Case no.)  |
| 6. Pump or valveV  | alve Nominal   | inlet size2   | Outlet size  | 2  |
| o. rump or varyo   | HOME   | (in.)   |  | (in.)  |
| 7. Material: Body SA   | 182-F316 Ronnet  | SA479-316   | Disk SA217-CA15/HF   | Bolting NA   |
| 7. Material. Dody 223  | DOMINIC  |   | Wild the second  | and the same of th |
| (a)  | (b)  | (c)   | (d)  | - (e)  |
| Cert.  | Nat'l  | Body  | Bonnet   | Disk   |
| Holder's   | Board  | Serial  | Serial   | Serial   |
| Serial No.   | No.  | No.   | No.  | No.  |
| 97-38489   | 2614   | B243-13   | B254-4   | B258-19  |
| 97-38490   | 2615   | B255-6  | B254-2   | B258-23  |
| 97-38491   | 2616   | B243-1  | B254-3   | B258-20  |
| 97-38492   | 2617   | B244-2  | B254-1   |  |
| 97-38493   | 2618   | B255-8  | B254-5   | B258-7   |
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| AND REPORTS THAT I THE PROPERTY OF THE ANALYSIS OF THE AND   | M. PARIS MINISTER, DOMESTIC AND SHOWN IN   |   |  | -  |
|  | *  |   | THAT PRODUCTS SHITT SAME ARREST AND ARREST AND ARREST AND ARREST  | Application of the control of the co |
|  |  |   |  |  |

This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

(12/88)

<sup>\*</sup> Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NPV-1 (Back - Pg. 2 of 2\_\_)

97-38489 thru

Certificate Holder's Serial No. 97-38493

|     |  |                    |                | 150               | °F or val       |                | alane          | 1800              |
|-----|--|--------------------|----------------|-------------------|-----------------|----------------|----------------|-------------------|
| 8.  | Design conditions  | 2675<br>(pressure) | psi            | (temperature)     | *F or var       | ve pressure (  | 31033          |                   |
| 9.  | Cold working pressure .  | 4320               | psi at         | 100°F             |                 |                |                |                   |
|     | Hydrostatic test650  |                    | Disk differ    | ential test press | ure4            | 755            |                | psi               |
| 11. | Remarks:   |                    |                |                   |                 |                |                |                   |
|     |  |                    |                |                   |                 |                |                |                   |
|     |  |                    |                |                   |                 |                |                |                   |
|     |  |                    |                |                   |                 | -              |                |                   |
|     | and the second | ***                | CERTIF         | ICATION OF DE     | SIGN            |                |                |                   |
| -   |  | D. G.              | Garner         |                   | P.F. State      | SC             | Reg. no.       | 8234              |
| De  | sign Specification certific  | J. Alan W          | lest           |                   | P.E. State      | TX             | _ Reg. no.     | 41731             |
|     |  |                    |                |                   |                 |                |                |                   |
|     |  |                    |                |                   |                 |                |                |                   |
|     |  |                    | CERTIFIC       | CATE OF COMPL     | JANCE           |                |                |                   |
| NA. | certify that the stateme   | nte made in this s | enort are co   | rrect and that th | is pump or va   | lve conforms   | to the rules   | for construction  |
|     | the ASME Code, Section   |                    |                |                   |                 |                |                |                   |
| N   | Certificate of Authorization   | on No              | N-2823         |                   |                 | Expires        | 0 0            | 99                |
| De  | te 4/24/98 Nam   | Anderson,          | Greenw         | ood & Co.         | Signed          | Joseph.        | a. Park        |                   |
| Da  | to   | (N                 | Certificate Ho | ilder)            |                 | / (authori     | zed represent  | ative)            |
|     |  |                    |                |                   |                 |                |                |                   |
|     |  |                    |                |                   |                 |                |                |                   |
|     |  |                    | CERTIFIC       | CATE OF INSPE     | CTION           |                |                |                   |
|     |  |                    |                |                   | December 1 Dec  | Har and Dran   | eura Vassai    | Inspectors and    |
|     | the undersigned, holding   | a valid commis     | sion issued    | by the National   | amployed by     | C.U.I          | .C.            | mspectors and     |
|     | Boston, MA   |                    |                | _ have inspecte   | d the pump,     | or valve, desc | cribed in this | Data Report on    |
| -   | 4.24.98  |                    |                |                   |                 |                | Certificate    | Holder has con-   |
| str | ucted this pump, or valve  | e, in accordance   | with the AS    | ME Code, Section  | n III, Division | 1.             |                |                   |
| Ву  | signing this certificate,  | neither the inspe  | ctor nor his   | employer make     | s any warran    | ty, expressed  | f or implied,  | concerning the    |
| co  | mponent described in thi   | s Data Report. Fo  | urthermore,    | neither the inspe | ctor nor his e  | imployer shall | l be liable in | any manner for    |
|     | y personal injury or prope   | M XI               | lose of any h  | kind arising from | or connected    | with this ins  | paction.       | , ,               |
| Da  | to 4:24.98 signed  | (Authorized in     | UTLA spector)  | Commissions       | Tex 8           | 03 A           | 1B750          | or prov. and no.1 |

(1) For manually operated valves only.

| 1. | Owner Address:       | Duke Power Company   |                         |     | la. Da       | ate 06/29/98             |
|----|----------------------|--|-------------------------|-----|--------------|--------------------------|
|    |                      | 526 S. Church Street, Charlotte, NC 28201-1006                 |                         |     | She          | eet <u>1</u> of <u>1</u> |
| 2. | Plant Address:       | Mcguire Nuclear Station  |                         |     |              |                          |
|    |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                |                         |     |              |                          |
| 2a | . Unit: 🛛 1 🔲 2      | 3 Shared (specify units)                                       |                         |     |              |                          |
| 3. | Work Performed B     | y: Duke Power Company  |                         | 3a. | Work Order # | 98057648                 |
|    | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                 |                         |     |              | Repair Organization Job# |
|    | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A          |                         | 3b. | NSM or MM #  | MM-10378                 |
| 4. | (a) Identification o | f System: NV   | 4. (b) Class of System: | A   |              |                          |
| 5. | (a) Applicable Cor   | nstruction Code: ASME III 1971 Edition, Summer and Winter      | Addenda, N/A            |     | Code Cases   |                          |
|    | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989 | No Addenda              |     |              |                          |
| 6. | Identification of Co | omponents Repaired or Replaced and Replacement Components:     |                         |     |              |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                                      | Column 8                          |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---|-----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement         | A SME C de<br>Stamped (yes or no) |
| A | 1-MCR-NV-0859     | DUKE POWER   | N/A             | N/A                | N/A                  | N/A        | □ Repaired,     □ Replaced,     □ Replacement | ⊠ No □ Yes                        |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Repiscement         | □ No □ Yes                        |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement         | □ No                              |
| D |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement               | □ No                              |
| E |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement               | □ No                              |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement               | □ No                              |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

7. Description of work: TRIMMED CORNER OF ITEM# 2 PER MM-10378

| 8. Test Conducted:   | Hydrostatic 🗆   | Pneumatic 🗆   | Nom. Operating Press.  | Other □ Exempt ⊠  |
|--|---|---|--|---|
|  | Pressure  | psig  | Test Temp  | °F  |
|  | Pressure  | psig  | Manager Committee Committe | °F  |
|  | Pressure  | psig  | Test Temp  | °F  |
| 9. Remarks:  |   |   |  |   |
|  |   |   |  |   |
|  | (Applicab   | ole Manufacturer's Da   | ta Records to be attached)   |   |
| Type Code Symbo<br>Certificate of Auth   | ME Code, Section of Stamp N/A norization No. N/Sorrow Exec. Sup   | M XI.   | Expiration  Date 06/29   | on Date N/A   |
| Vessel Inspectors of Hartford Conne period 629 9 Owner has perform accordance with the By signing this cer implied, concernin Furthermore, neith | holding a valid c<br>and the State or P<br>cticut have inspect<br>to GHHH<br>ned examinations<br>e requirements of<br>tificate neither the<br>g the examination<br>er the Inspector n | ommission issued rovidence of North ted the component ; and state the and taken correct f ASME Code, See Inspector nor his and corrective ror his employer si | RVICE INSPECTION  by the National Board of It in Carolina and employed buts described in this Owner at to the best of my knowle live measures described in the ction XI.  s employer makes any warr measures described in the Othall be liable in any manner or connected with this insp   | y HSBI and I Company 's Report during the edge and belief, the his Owner's Report in anty, expressed or owner's Report. For any personal injury |
| R. D. Klein S<br>Inspector'  | Signature   | Commiss   | Des montes de la manuel de la m | N-I<br>rovidence and Endorsements   |



# FORM NIS-2 OWNER'S ORT FOR REPAIRS OR REPLACEMENTS As Required By rovisions Of The ASME Code Section XI

|   | - | - |    |    |
|---|---|---|----|----|
| 4 |   |   |    | A. |
| В |   |   |    | 8  |
| 8 |   |   |    | 9  |
| ٦ |   |   | 35 | ,  |

| 1.  | Owner Address:                            | Duke Power Company 526 S. Church Street, Charlotte, NC 28201-1006  | 1a. Date   |
|-----|---|--|--|
| 2.  | Plant Address:                            | McGuire Nuclear Station 12700 Hagers Ferry Road, Huntersville, NC 28078  |  |
| 2a. | Unit: №1 □2                               | □3 □Shared (specify Units)   |  |
| 3.  | Work Performed By<br>Address:             | Duke Power Company 526 S. Church Street. Charlotte NC 28201-1006   | 3a. Work Order # : 94019801  Repair Organization Job # |
|     | Type Code Symbol                          | Stamp: N/A Authorization No. N/A Expiration Date: N/A  | 3b. NSM or MM #: N/A                                   |
| 4.  | (a) Identification o                      | System: CBD-CONTAINMENT VESSEL 4.  | (b) Class of System: B                                 |
| 5.  | (a) Applicable Cor<br>(b) Applicable Edit | istruction Code: <u>ASME III</u> 19 <u>71</u> Edition, <u>Summer and Winter Addenda</u> , <u>N/A</u> ion of Section XI Utilized for Repairs or Replacements: <u>1989, No Addenda</u> | Code Cases   |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1                       | Column 2      | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|--------------------------------|---------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
| _ | Name of Component              | Name of Mfg   | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or Replacement          | ASME Code Stamped<br>(yes or no) |
| A | STEEL<br>CONTAINMENT<br>VESSEL | DUKE POWER CO | N/A            | N/A                | N/A                  |            | ☑ Repaired,<br>□ Replaced,<br>□ Replacement | ⊠No<br>□ Yes                     |
| В |                                |               |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No                             |
| С |                                |               |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No                             |
| D |                                |               |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No                             |
| E |                                |               |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No                             |
| F |                                |               |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,                  | □No                              |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 8. | Test Con   | ducted:Hydrostatic [   | ☐ Pneumatio  | Li Nom. Operation  | ng Press.   | Other & Exempt   |
|----|--|--|--|--|---|--|
|    |  | Pressure   | psig   | Test Temp.   | ۰F  | SCE KEMAKE S   |
|    |  |  |  | Test Temp.   |   |  |
|    |  |  |  | Test Temp.   |   |  |
| 9. | Remarks  | REPAIRS TO BE P  | RESSURE  | TESTED NEXT IL   | RT IAW V  | V.O. 97093978  |
|    | Type<br>Certifi  | ertify that the statements rms to the rules of the A Code Symbol Stamp N/cate of Authorization No.   | CERTIFICATE s made in the r SME Code, Se A D. N/A D. TALBERT T   | ection XI.   | I this repair o   | N/A  |
|    | Press HSBI this O of my mease Code, By sig expres Owne manne | CERTi undersigned, holding a ure Vessel Inspectors a and I Company of Harti wner's Report during the knowledge and belief, to ures described in this Or Section XI. ning this certificate neith ssed or implied, concern 's Report. Furthermore er for any personal injuncted with this inspection | valid commission the State or ord Connecticute period 9-15 he Owner has wher's Report in the Inspecting the examination neither the Inspection or property decided as the Inspection of the Insp | Province of North of the have inspected the secondaria with the province of North of the hat of the | ional Board Carolina_ are componen '_; and state ons and take the requirement makes any we measures over shall be | and employed by its described in that to the best en corrective ents of ASME varranty, described in the te liable in any |

| 1. | Owner Address:        | Duke Power Company   | ta. Da           | te 5/20/97                |
|----|-----------------------|--|------------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | et 1 of 1                 |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                  |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                  |                           |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |                  |                           |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 95023014                  |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM #  | N/A                       |
| 4. | (a) Identification of | f System: NI 4. (b) Class of System:                                       | В                |                           |
| 5. | (a) Applicable Con    | astruction Code: ASME III 1971 Edition, Summer and Winter Addenda, NONE    | Code Cases       |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                  |                           |
| 6. | Identification of Co  | omponents Repaired or Replaced and Replacement Components:                 |                  |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1NI-121A          | WALWORTH     | C54501          | 2                  | N/A                  | 1973       | ☐ Repaired, ☐ Replaced, ☒ Replacement | □ No  ⊠ Yes                      |
| В |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of v  | vork : REPLAC  | CED BONNET  | AND V  | VEDGE  |  |  |
|--|--|---|--|--|--|--|
| 8. Test Conducted  | : Hydrostatic 🗆  | Pneumatic 🗆   | Nom  | . Operating Press. 🖸   | Other 🖾  | Exempt [   |
|  | Pressure   | ps  | ig   | Test Temp  | °F   |  |
|  | Pressure   | ps  |  | Test Temp  | °F   |  |
|  | Pressure   | ps  |  | Test Temp  | °F   |  |
| 9. Remarks :   |  |   |  |  |  |  |
|  |  |   |  |  |  |  |
|  | (Applicat  | ole Manufacturer's  | Data Rec   | ords to be attached)   |  |  |
| Type Code Symb<br>Certificate of Au  | horization No. N. Sorrow Exec. Sur   | /A  | ou   | Expiration  Date 5/20  | on Date <u>N/.</u>   | A<br>9 <u>97</u>   |
|  | CERTIFIC   | ATE OF IN   | ERVI   | CE INSPECTION  |  |  |
| Vessel Inspectors of Hartford Conn period 424 Owner has perfor accordance with the By signing this co- implied, concerni Furthermore, neit | the holding a valid of and the State or Fecticut have inspected. To 5 22 4 med examinations the requirements of the reasonable examination the the Inspector of the the Inspector of the the Inspector of the the Inspector of the examination the the Inspector of the the Inspector of the the Inspector of the the Inspector of the In | commission issued the composite of Noticed the composite of Noticed the composite of Noticed the Code, and taken composite of ASME Code, are Inspector nor nor and correction or his employed | ned by toorth Canents de that to ective no Section his empre measur shall to | he National Board of International Board of I | by HSBI and is Report due dge and be this Owner's ranty, expre Dwner's Repr for any pe | I I Company<br>uring the<br>lief, the<br>s Report in<br>ssed or<br>port. |
| R. D. Klein Inspector  | Splain<br>r's Signature<br>1927  | Comm  | issions  | NB7728, NC853, National Board, State, P  |  | Endorsements   |

| 1. | Owner Address:        | Duke Power Company   |                        | la. Da           | te 5/29/97               |
|----|-----------------------|--|------------------------|------------------|--------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                 |                        | She              | et <u>1</u> of <u>1</u>  |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                        |                  |                          |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                |                        |                  |                          |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)                                       |                        |                  |                          |
| 3. | Work Performed B      | y: Duke Power Company  |                        | 3a. Work Order # | 95089711                 |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                 |                        |                  | Repair Organization Job# |
|    | Type Code Symbo       | Stamp: N/A Authorization No. N/A Expiration Date: N/A          |                        | 3b. NSM or MM #  | N/A                      |
| 4. | (a) Identification of | of System: BW  | 4. (b) Class of System | : <u>B</u>       |                          |
| 5. | (a) Applicable Con    | nstruction Code: ASME III 1971 Edition, Summer and Wint        | er Addenda, N-416-1    | Code Cases       |                          |
|    | (b) Applicable Edi    | ition of Section XI Utilizing for Repairs or Replacements: 198 | 9, No Addenda          |                  |                          |
| 6. | Identification of Co  | omponents Repaired or Replaced and Replacement Component       | ts:                    |                  |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Celumn 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1BW-21            | BORGWARNER   | 11933           | 295                | N/A                  | 1976       | ☐ Repaired, ☑ Replaced, ☐ Replacement | □ No  ⊠ Yes                      |
| В | 1BW-21            | BORGWARNER   | 11932           | 294                | N/A                  | 1976       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| . Descrip                            | tion of w                | ork: CUT OU   | T AND R  | EPLACED   | VALVE WITH L   | IKE KINI  | )                            | NE A PROPERTY COMPANIES PROPERTY |
|--------------------------------------|--------------------------|---|--|---|--|---|------------------------------|----------------------------------|
| SO. MCFI-                            | ICA13 V                  | VELD CA1F509  |  |   |  |   |                              |                                  |
| . Test Cor                           | nducted:                 | Hydrostatic 🗆   | Pneumat  | ic 🗆 No   | n. Operating Press   | s. ⊠ Oth  | er 🗆                         | Exempt [                         |
|                                      |                          | Pressure  | 1073   | psig  | Test Temp  | 448   | °F                           |                                  |
|                                      |                          | Pressure  |  | psig  | Test Temp  |   | °F                           |                                  |
|                                      |                          | Pressure  |  | psig  | Test Temp  |   | °F                           |                                  |
| Remarks                              | :                        |   |  |   |  |   |                              |                                  |
|                                      |                          |   |  |   |  |   |                              |                                  |
|                                      |                          |   |  | -   | cords to be attached)  |   |                              |                                  |
|                                      | e of Auth                | Sorrow Exec. Sur  | p. 11  | Longs<br>e, Title                               | Exp  | oiration Da   |                              | A 9 97                           |
| of Hartfor<br>period<br>Owner ha     | spectors and Conne       | holding a valid of and the State or Focticut have inspected to 5-70-4 | commission<br>Providence<br>cted the co<br>Z; and<br>and taken | of North Components of state that to corrective | the National Boar<br>arolina and emplo<br>escribed in this O<br>to the best of my ki | d of Boiler<br>yed by <u>HS</u><br>wner's Rep<br>nowledge a | BI and<br>port du<br>and bel | I Comparing the lief, the        |
| By signin<br>implied, c<br>Furthermo | concerning<br>ore, neith | tificate neither the<br>g the examination<br>er the Inspector r       | ns and com<br>nor his emp                                      | r nor his en<br>rective mea<br>ployer shall     | n AI.  aployer makes any sures described in be liable in any m connected with this   | the Owner<br>anner for a                                    | 's Rep                       | ort.                             |

# FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*

### As Required by the Provisions of the ASME Code Rules

|     |   | The same of the sa | Control of the contro |  |
|-----|---|--|--|--|
|     | Nuclear Valve Div   | vision   |  |  |
| 1.  | Manufactured by of Lorg Warner, T   | 7500 Tyrone Ave.   | Van Niiwa Co   |  |
|     | (Nam  | s & Address of Menufactures  | van Muys, Ca. Orde   | r No. 47330  |
|     | Mill Power Sur  | pply/Duke Power Co   | Omnane   |  |
| 2.  | Manufactured for P.O. Box 1339  | Charlotte, North   | h Camalian   |  |
|     |   | (Name and Address)   | Orde   | r No. 98513  |
|     |   |  |  |  |
| 3.  | Owner Mc Guire Nuclea   | r Station  |  |  |
|     |   |  | and the second s | The second secon |
| 4.  | Location of Plant McGuire Nucles  | r Station. Cowan   | S Ford North Care  | 14n-   |
|     |   |  |  | And the second s |
| 5.  | Pump or Valve Identification NV Div   | sion P/N 75860   | 2 Inch Gate Volve  | CG 000#  |
|     |   |  | Jaco volve   | CS 900#  |
|     | Serial Numbers  | 11932 (1   | Valve)   |  |
|     | (Brief deacr  | iption of service for which e  |  |  |
|     |   |  |  |  |
|     |   | The section of the stands of the section of the sec |  |  |
|     | (a) Drawing No. 75860   | Prepared by Nucles   | ar Valve Division o  | f Borg Warner  |
|     |   | The state of the s | THE PART OF THE PA | DOLK MRLHEL  |
|     | (b) National Board No. 294  |  |  |  |
|     |   |  |  |  |
| 6   | Design Conditions 3600  | psi 100  | 0 E  |  |
| 444 | (Pressure)  | (Temperat  | ure)   |  |
|     | 1,111   |  |  |  |
|     |   |  | SHE Code Section III Class   | . 9  |
|     | The material, design, construction, and wor   | kmanship complies with   |  |  |
|     | The material, design, construction, and wor   | kmanship complies with   |  |  |
|     |   | kmanship complies with   |  |  |
|     | The material, design, construction, and wor   | kmanship complies with /   | , Case No.   |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.   | kmanship complies with   |  |  |
|     | The material, design, construction, and work  Edition1971, Addenda Da  Mark No.  (a) Castings   | kmanship complies with /   | , Case No.   |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21   | kmanship complies with /   | Manufecturer   |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21   | kmanship complies with /   | Manufecturer   |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  | kmanship complies with /   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  | kmanship complies with /   | Manufacturer  Rex Precision  | Remarks  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  | Material Spec. No.   | Manufacturer  Rex Precision  |  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  | kmanship complies with /   | Rex Precision NV Division  | Remarks  |
|     | The material, design, construction, and work  Edition 1971 Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746   | Material Spec. No.   | Rex Precision  NV Division  Reisner Metals   | Remarks  |
|     | The material, design, construction, and work  Edition 1971 Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746  Machined - 75495   | Material Spec. No.   | Rex Precision  NV Division  Reisner Metals  NV Division  | Remarks  |
|     | The material, design, construction, and work  Edition 1971 Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746   | Material Spec. No.   | Rex Precision  NV Division  Reisner Metals   | Remarks  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746  Machined - 75495  Assembly - 75494                                 | Material Spec. No.  SA351 CF8M  SA105  | Rex Precision  NV Division  Reisner Metals  NV Division  | Remarks  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746  Machined - 75495  Assembly - 75494  Bonnet - Code 1149             | Material Spec. No.   | Rex Precision NV Division  Reisner Metals NV Division  Reisner Motals NV Division  | Remarks  |
|     | The material, design, construction, and work  Edition 1971 Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746  Machined - 75495  Assembly - 75494  Bonnet - Code 1149  Forged Stock | Material Spec. No.  SA351 CF8M  SA105  | Rex Precision NV Division  Reisner Metals NV Division  Reisner Metals NV Division  Compton Forge   | Remarks  |
|     | The material, design, construction, and work  Edition 1971 , Addenda Da  Mark No.  (a) Castings  Gate - Code 1B21  Casting - 70437  Machined - 70438  (b) Forgings  Body - Code 1B40  Forging - 70746  Machined - 75495  Assembly - 75494  Bonnet - Code 1149             | Material Spec. No.  SA351 CF8M  SA105  | Rex Precision NV Division  Reisner Metals NV Division  Reisner Motals NV Division  | Remarks  |

<sup>\*</sup>Supplements! sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 50 and 5b on this date report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

# OUKE POWER COMPANY QUALITY ASSURANCE DEPARTMENT SUPPLIER QUALITY ASSURANCE CERTIFICATION

| 75   | 300 Tyrone Avenue  |   | 100510   |
|--|--|---|--|
|  | in Nuys, Ca. 91409   | Mill Power Order No.  | A98513   |
|  |  | Duke I tem or Req. No   | 6H-107   |
|  |  | 5 H- CNG-104  | 25 00-5  |
|  |  | Spec. No. <u>CNS-120</u>  | 05,00-5 Rev.   |
| upplier 10 Nos.  |  |   |  |
| escription of Component(s) or i  | Material(s) NV Division  | on P/N 75860, 2 Inch  | Gate Valve, CS   |
|  | Serial Num   | mber 11932  |  |
|  | National I   | Board No. 294   |  |
|  |  | rials on Hill Power Order.<br>Components/Materials on Mi                            | Il Power Order.  |
|  |  |   |  |
| he following listed tests, insp<br>pecification:   | pections and reports have  | e been completed as require   | d by the   |
|  |  |   |  |
| X Physical & Chemical Analys   | is 5575 N/   | A Major Repair Records & C  | harte  |
|  |  | A Major Repair Records & C<br>Personnel Qualifications                              |  |
|  |  | A Major Repair Records & C<br>Personnel Qualifications                              |  |
| X Hydro (Test Pressure - PS) X Design Report   | X Stress Repor   | Personnel Qualifications  |  |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test   | X Stress Repor X Ultrasonic 1  | Personnel Qualifications  ort $\frac{X}{N/A}$                                       | on Record  Heat Treatment  Magnetic Particle   |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test  X Penetrant Test   | X   Stress Repor   X   Ultrasonic   N/A   Repair NDE                                       | Personnel Qualifications  rt  Test  N/A  X  | on Record  Heat Treatment  Magnetic Particle  Cleanliness                                      |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test  X Penetrant Test   | X Stress Report X Ultrasonic T N/A Repair NDE N/A Performance                              | Personnel Qualifications  Test $X$ Curve $X$  | on Record  Heat Treatment  Magnetic Particle   |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test  X Penetrant Test   | X   Stress Repor   X   Ultrasonic   N/A   Repair NDE                                       | Personnel Qualifications  Test $X$ Curve $X$  | on Record  Heat Treatment  Magnetic Particle  Cleanliness                                      |
| X Hydro (Test Pressure - PSI X Design Report A Radiographic Test X Penetrant Test Y Operating Test X Dimensional Check   | X Stress Report X Ultrasonic 1 N/A Repair NDE N/A Performance N/A Deviation Re             | Personnel Qualifications  Test $X$ Curve $X$  | on Record  Heat Treatment  Magnetic Particle  Cleanliness                                      |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test  X Penetrant Test  Operating Test  X Dimensional Check  Wall Thickness Me   | X Stress Report X Ultrasonic 1 N/A Repair NDE N/A Performance N/A Deviation Re             | Personnel Qualifications  Test $X$ Curve $X$  | on Record  Heat Treatment  Magnetic Particle  Cleanliness                                      |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test  X Penetrant Test  Operating Test  X Dimensional Check  Wall Thickness Me   | X Stress Report X Ultrasonic 1 N/A Repair NDE N/A Performance N/A Deviation Re             | Personnel Qualifications  Test $X$ Curve $X$  | on Record  Heat Treatment  Magnetic Particle  Cleanliness                                      |
| X Hydro (Test Pressure - PS)  X Design Report  (/A Radiographic Test  X Penetrant Test  Operating Test  X Dimensional Check  Wall Thickness Me   | X Stress Report X Ultrasonic 1 N/A Repair NDE N/A Performance N/A Deviation Re             | Personnel Qualifications  Test $X$ Curve $X$  | on Record  Heat Treatment  Magnetic Particle  Cleanliness                                      |
| X Hydro (Test Pressure - PS)  X Design Report  (/A Radiographic Test X Penetrant Test Operating Test X Dimensional Check  Wall Thickness Me  | X Stress Report X Ultrasonic 1 N/A Repair NDE N/A Performance N/A Deviation Research       | Personnel Qualifications  Test X N/A  Curve X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report                    |
| X Design Report  X/A Radiographic Test  X Penetrant Test  Y Operating Test  X Dimensional Check  Wall Thickness Me  his certifies that the listed C  | X Stress Report X Ultrasonic TO N/A Repair NDE N/A Performance N/A Deviation Resourcements | Personnel Qualifications  Test X N/A  Curve X Y  Second #                           | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report  ents of the above |
| X Design Report  X Design Report  X Radiographic Test  X Penetrant Test  Y Operating Test  X Dimensional Check  Wall Thickness Me  Mis certifies that we listed Conferenced Duke Power documents               | X Stress Report X Ultrasonic TO N/A Repair NDE N/A Performance N/A Deviation Resourcements | Personnel Qualifications  Test X N/A  Curve X Y  Second #                           | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report  ents of the above |
| X Hydro (Test Pressure - PS)  X Design Report  X/A Radiographic Test  X Penetrant Test  Y Operating Test  X Dimensional Check  | X Stress Report X Ultrasonic TO N/A Repair NDE N/A Performance N/A Deviation Resourcements | Personnel Qualifications  Test X N/A  Curve X Y  Second #                           | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report  ents of the above |
| X Design Report  X Design Report  X/A Radiographic Test  X Penetrant Test  Y Operating Test  X Dimensional Check  Wall Thickness Me  Mis certifies that the listed Conferenced Duke Power documents            | X Stress Report X Ultrasonic TO N/A Repair NDE N/A Performance N/A Deviation Resourcements | Personnel Qualifications  Test X N/A  Curve X Y  Second #                           | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report  ents of the above |
| X Hydro (Test Pressure - PS)  X Design Report  (A Radiographic Test  X Penetrant Test  Y Operating Test  X Dimensional Check  Wall Thickness Me  his certifies that he listed Conferenced Duke Power documents | X Stress Report X Ultrasonic TO N/A Repair NDE N/A Performance N/A Deviation Resourcements | Personnel Qualifications  Test X N/A  Curve X Y  Second #                           | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report  ents of the above |
| X Hydro (Test Pressure - PS)  X Design Report  A Radiographic Test  X Penetrant Test  Y Operating Test  X Dimensional Check  Wall Thickness Me  Discretifies that the listed Conferenced Duke Power documents  | X Stress Report X Ultrasonic TO N/A Repair NDE N/A Performance N/A Deviation Resourcements | Personnel Qualifications  Test X N/A  Curve X Y  Second #                           | on Record  Heat Treatment  Magnetic Particle  Cleanliness  ASME Data Report  ents of the above |

(See Instructions)

Title Supervisor, Q. A. Date 8/27/76

| 1. | Owner Address:       | Duke Power Company   |     | la. Da       | ate 5/29/97               |
|----|----------------------|--|-----|--------------|---------------------------|
|    |                      | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She          | eet <u>1</u> of <u>1</u>  |
| 2. | Plant Address:       | Mcguire Nuclear Station  |     |              |                           |
|    |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |              |                           |
| 2a | . Unit: 🛛 1 🔲 2      | 3 Shared (specify units)   |     |              |                           |
| 3. | Work Performed B     | y: Duke Power Company  | 3a. | Work Order # | 95089716                  |
|    | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                             |     |              | Repair Organization Job # |
|    | Type Code Symbo      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM #  | N/A                       |
| 4. | (a) Identification ( | f System: BW 4. (b) Class of System:                                       | В   |              |                           |
| 5. | (a) Applicable Co    | nstruction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A     |     | Code Cases   |                           |
|    | (b) Applicable Ed    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                           |
| 6. | Identification of Co | omponents Repaired or Replaced and Replacement Components:                 |     |              |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Boan' No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1BW-12            | BORGWARNER   | 11925           | 287                | N/A                  | 1976       | ☐ Repaired,  ☑ Replaced,              | □ No                             |
|   |                   |              |                 |                    |                      |            | Replacement                           |                                  |
| В |                   |              |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |              |                 |                    |                      |            | Replacement                           | ☐ Yes                            |
|   |                   |              |                 |                    |                      |            | ☐ Repaired,                           | □ No                             |
| C |                   |              |                 |                    |                      |            | ☐ Replaced,                           |                                  |
|   |                   |              |                 |                    |                      |            | Replacement                           | ☐ Yes                            |
| D |                   |              |                 |                    |                      |            | Repaired.                             | □ No                             |
|   |                   |              |                 |                    |                      |            | ☐ Replaced, ☐ Replacement             | ☐ Yes                            |
| - |                   |              |                 | -                  | -                    |            | ☐ Repaired,                           | □ No                             |
| E |                   |              |                 |                    |                      |            | ☐ Replaced,                           | L 110                            |
|   |                   |              |                 |                    |                      |            | Replacement                           | ☐ Yes                            |
| F |                   |              |                 |                    |                      |            | ☐ Repaired,                           | □ No                             |
| F |                   |              |                 |                    |                      |            | ☐ Replaced,                           |                                  |
|   |                   |              |                 |                    |                      |            | Replacement                           | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of w   | ork: SEAL W  | ELDED BONNE   | ET TO B  | ODY  |   | 10011111111111111111111111111111111111                                   |
|---|--|---|--|--|---|--|
| 8. Test Conducted :   | Hydrostatic 🗆  | Pneumatic 🗆   | Nom. O   | perating Press.  | Other 🗆   | Exempt 🛭   |
|   | Pressure   | psig  |  | Test Temp  | °F  |  |
|   | Pressure   | psig  |  | Test Temp  | °F  |  |
|   | Pressure   | psig  | , ,  | Test Temp  | °F  |  |
| . Remarks :   |  |   |  |  |   |  |
|   |  |   |  |  |   |  |
|   | (Applicabl   | le Manufacturer's Da  | ata Records  | to be attached)  |   |  |
| We certify that he the rules of the AS  Type Code Symbol Certificate of Auth  Signed F.R. S   | ME Code, Section of Stamp N/A norization No. N/A Sorrow Exec. Supp   | n XI.   |  |  | on Date N/  |  |
| I, the undersigned, Vessel Inspectors of Hartford Conne period 2-13-4. Owner has perforn accordance with the By signing this cer implied, concerning Furthermore, neith or property damage. | holding a valid co<br>and the State or Proceeding the Procedure<br>To 5 29 9<br>ned examinations are requirements of<br>trificate neither the lag the examination are the Inspector neither the lag the Examination are the Inspector neither the Inspector ne | rovidence of Norted the component of taken correct ASME Code, See Inspector nor his and corrective or his employers | d by the left Carolicate to the tive measures that to the tive measures shall be life. | na and employed ibed in this Owner best of my knowl sures described in the control of the contro | Boiler and F<br>by HSBI and<br>r's Report du<br>edge and be<br>this Owner's<br>ranty, expre<br>Owner's Rep<br>er for any pe | d I Company<br>aring the<br>lief, the<br>s Report in<br>ssed or<br>port. |
| R. D. Klein   |  | Commis  | 9000   | NB7728, NC853,   |   |  |
| Inspector Date 5-29   |  |   | ,  | National Board, State, I   | Providence and  | Endorsements   |

| 1.  | Owner Address:       | Duke Power Company   |                         | 1a. Da           | ite 6/11/97              |
|-----|----------------------|--|-------------------------|------------------|--------------------------|
|     |                      | 526 S. Church Street, Charlotte, NC 28201-1006                 |                         | She              | et 1 of 1                |
| 2.  | Plant Address:       | Mcguire Nuclear Station  |                         |                  |                          |
|     |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                |                         |                  |                          |
| 2a. | Unit: 🛛 1 🔲 2        | 3 Shared (specify units)                                       |                         |                  |                          |
| 3.  | Work Performed B     | y: Duke Power Company  |                         | 3a. Work Order # | 95089719                 |
|     | Address:             | 526 S. Church Street, Charline, NC 28201-1006                  |                         |                  | Repair Organization Job# |
|     | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A          |                         | 3b. NSM or MM #  | N/A                      |
| 4.  | (a) Identification o | f System: BW   | 4. (b) Class of System: | В                |                          |
| 5.  | (a) Applicable Cor   | struction Code: ASME III 1971 Edition, Summer and Winter       | r Addenda, N/A          | Code Cases       |                          |
|     | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989 | . No Addenda            |                  |                          |
| 6.  | Identification of Co | imponents Repaired or Replaced and Replacement Components      |                         |                  |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | VLV. 1BW-3        | BORG WARNER  | 11943           | 324                | N/A                  | 1976       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| C |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 1. | Description of wo  | ork: SEAL W  | ELDED BONNI  | ET TO   | BODY  |  |   |
|----|--|--|--|---|---|--|---|
|    | Test Conducted :   | Hydrostatic  | Pneumatic  | Nom   | . Operating Press.  | Other 🗆  | Exempt 🛭  |
|    |  | Pressure   | psig   |   | Test Temp   | ok.  |   |
|    |  | Pressure   | psig   |   | Test Temp   | °F   |   |
|    |  | Pressure   | psig   |   | Test Temp   | °F   |   |
|    | Remarks:   |  |  |   |   | and the same and t |   |
|    |  |  | Management Administration (MANAGEMENT)   |   |   |  |   |
| -  |  |  | ole Manufacturer's D   |   |   |  |   |
|    | Type Code Symbol<br>Certificate of Auth<br>Signed F.R. S   | orization No. N/orrow Exec. Sup  | 101  | ow  | Expiration Date 6/11  | on Date N/   | A<br>19 97  |
|    | Vessel Inspectors a of Hartford Connector Deriod 247-47 Owner has perform accordance with the By signing this certification, concerning Furthermore, neither | holding a valid of and the State or Poticut have inspected to 641-11 and the examinations are requirements of tificate neither the general transpector of the examination of the examina | commission issue<br>Providence of No<br>cted the compone<br>77; and state to<br>and taken correct<br>of ASME Code, So<br>the Inspector nor has<br>and corrective<br>mor his employer | d by to the Cants de that to ection is employee meas shall be | CE INSPECTION the National Board of rolina and employed in secribed in this Owner the best of my knowled the secribed in XI. Toloyer makes any war ures described in the Core liable in any manner onnected with this inspection. | Boiler and I<br>by HSBI and<br>'s Report di<br>edge and be<br>this Owner'<br>ranty, expre<br>Owner's Re<br>or for any pe   | d I Companuring the blief, the s Report in essed or port. |
|    | R. D. Klein Inspector  | Oxlein<br>s Signature  | Commis   | ssions  | NB7728, NC853,<br>National Board, State, F  | ARREST CARROL MANAGEMENT AND ADDRESS OF THE PARTY OF THE  | Endorsement   |

| 1.  | Owner Address:        | Duke Power Company  | 1a. Da          | te 07/21/97              |
|-----|-----------------------|---|-----------------|--------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                            | She             | et <u>1</u> of <u>1</u>  |
| 2.  | Plant Address:        | Mcguire Nuclear Station   |                 |                          |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                           |                 |                          |
| 2a. | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)  |                 |                          |
| 3.  | Work Performed B      | y: Duke Power Company   | 3a. Work Order# | 95099581                 |
|     | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                            |                 | Repair Organization Job# |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                     | 3b. NSM or MM # | N/A                      |
| 4.  | (a) Identification of | f System: KC 4. (b) Class of System:                                      | В               |                          |
| 5.  | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A     | Code Cases      |                          |
|     | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989 No Addenda |                 |                          |
| 6.  | Identification of Co  | emponents Repaired or Replaced and Replacement Components:                |                 |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | VLV. 1KC-429      | KEROTEST     | KP13-14         | 7049               | N/A                  | 1975       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ☑ Yes                       |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      | ,          | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of work:  | REPLACED DIS   | С   |  |  |   |
|--|--|---|--|--|---|
| 3. Test Conducted : Hydro  | ostatic 🗆 Pneum  | atic   Nom  | Operating Press. ⊠   | Other 🗆  | Exempt  |
| Dea  | ssure  | psig  | Test Temp  | °F   |   |
|  | ssure  | psig  | Test Temp  | oF.  |   |
|  | ssure  | psig  | Test Temp  | °F   |   |
| 110  |  |   |  |  |   |
| . Remarks :  | AND THE RESIDENCE OF THE PARTY  |   |  |  |   |
|  |  |   |  |  |   |
|  | (Applicable Manufa   | cturer's Data Reco  | ords to be attached)   |  |   |
|  |  | Loury<br>nee, Title   | ( = 0000   | on Date N/   | <u>A</u><br>9 <u>97</u>                                 |
| I, the undersigned, holding Vessel Inspectors and the of Hartford Connecticut I period 3-0-17 to Owner has performed exaccordance with the requestional By signing this certificate implied, concerning the effort Furthermore, neither the or property damage or a light of the concerning the effort of the concerning the effort of the concerning the effort of the concerning the concer | ag a valid commission of State or Providence have inspected the control of the co | ion issued by the components de and state that to en corrective man Code, Section tor nor his emporrective measuraployer shall be | scribed in this Owner the best of my knowle described in the XI.  Sloyer makes any warmeres described in the Celebrate in the Celebrate in any manner. | by HSBI and is Report die edge and be this Owner's ranty, expression of the for any person of the edge and th | d I Companuring the lief, the s Report in ssed or port. |
| 100 M  |  |   | NIDAGO NIGOSO  |  |   |
| R. D. Klein  | ature  | Commissions   | NB7728, NC853, I   |  | Endorsen  |
| Inspector's Sign Date 7-21, 199  | 7  |   | National Doard, State, P   | Tovidence and  | Endorsement   |

# FORM NIS-2 OWNER'S ORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:                            | Duke Power Company   |                   |     |                    |     |                 | 1a. Date June 19, 199     | 97 |
|-----|---|--|-------------------|-----|--------------------|-----|-----------------|---------------------------|----|
|     |   | 526 S. Church Street, Charlotte, NC 28201-1006   |                   |     |                    |     |                 | Sheet 1 of 1              |    |
| 2.  | Plant Address:                            | McGuire Nuclear Station  |                   |     |                    |     |                 |                           |    |
|     |   | 12700 Hagers Ferry Road, Huntersville, NC 28078  |                   |     |                    |     |                 |                           |    |
| 2a. | Unit: ⊠1 □2                               | □3 □Shared (specify Units)   |                   |     |                    |     |                 |                           |    |
| 3.  | Work Performed By                         |  |                   |     |                    | 3a. | Work Order # :_ | 96007925                  |    |
|     | Address:                                  | 526 S. Church Street, Charlotte NC 28201-1006  |                   |     |                    |     |                 | Repair Organization Job # |    |
|     | Type Code Symbol                          | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |                   |     |                    | 3b. | NSM or MM #:_   | N/A                       |    |
| 4.  | (a) Identification of                     | System: SV - Main Steam Vent to Atmosphere   | 4.                | (b) | Class of System: _ | В   |                 |                           |    |
| 5.  | (a) Applicable Con<br>(b) Applicable Edit | struction Code: ASME III 1971 Edition, Summer and Winter Adion of Section XI Utilized for Repairs or Replacements: 1989, N | denda,<br>lo Adde | nda | None               |     |                 | Code Cases                |    |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2           | Column 3       | Column 4           | Column 5             | Col 6      | Column 7  | Column 8                         |
|---|-------------------|--------------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg        | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement               | ASME Code Stamped<br>(yes or no) |
| A | 1SV-VA-0001       | Control Components | 15958-2-1      | 7                  | N/A                  | 1977       | ☐ Repaired, ☐ Replaced,                             | □ No<br>☑Yes                     |
| В |                   |                    |                |                    |                      |            | ☐ Replacement ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |
| С |                   |                    |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement         | □ No □ Yes                       |
| D |                   |                    |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |
| E |                   |                    |                |                    |                      |            | ☐ Repaired,☐ Replaced,☐ Replacement                 | □ No □ Yes                       |
| F |                   |                    |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1)

size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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. 7. Description of Work Replaced Plug 8. Test Conducted:Hydrostatic ☐ Pneumatic ☑ Nom. Operating Press. ☐ Other ☐ Exempt☐ Pressure \_\_\_\_\_psig Test Temp. \_\_\_\_°F
Pressure \_\_\_\_psig Test Temp. \_\_\_\_°F
Pressure \_\_\_\_psig Test Temp. \_\_\_\_°F 9. Remarks

(Applicable Manufacturer's Data Records to be attached)

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A Certificate of Authorization No. N/A

Expiration Date N/A

Signed FL Grass Jr., QA Tech Specialist Date 6/19/, 19 97

INSERVICE INSPECTION CERTIFICATE OF

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-9-97 to 7-17-97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.

Inspector's Signature

Commissions NB 7728 NC 853 N - I
National Board, State, Province and Endorsements

| 1. | Owner Address:        | Duke Power Company   |     | la. Da       | ite 5/     | 29/97        |      |
|----|-----------------------|--|-----|--------------|------------|--------------|------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She          | et 1       | _ of         | 1    |
| 2. | Plant Address:        | Mcguire Nuclear Station  |     |              |            |              |      |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |              |            |              |      |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |     |              |            |              |      |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. | Work Order # | 96013      |              |      |
|    | Address:              | 526 S. Church Stree*, Charlotte, NC 28201-1006                             |     |              | Repair Org | ganization 3 | lob# |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM #  | N/A        |              |      |
| 4. | (a) Identification of | f System: SV 4. (b) Class of System:                                       | В   |              |            |              |      |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1  |     | Code Cases   |            |              |      |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |            |              |      |
| 6. | Identification of Co  | mponents Repaired or Replaced and Replacement Components:                  |     |              |            |              |      |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1SV-26            | WALWORTH     | C61628          | 708                | N/A                  | 1977       | ☐ Repaired, ☐ Replaced, ☒ Replacement | □ No ⊠ Yes                       |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Repiaced, ☐ Replacement | □ No □ Yes                       |
|   |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| E |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |
| 7 |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| <ol><li>Description of wo<br/>SEAT RING AND DI</li></ol> | HOLE COLUMN TO THE OWNER. | T AND REWE   | ELDED                         | VALVE 1SV-26         | , REPL           | ACED   |  |
|--|---------------------------|--|-------------------------------|----------------------|------------------|--|--|
| 3. Test Conducted:                                       |                           | Pneumatic 🗆  | Nom                           | Operating Press      | Ø                | Other [7]  | Exempt [   |
| . Text Conducted .                                       | Hysrostatic 🖸             | Thousand L   | 140111.                       |                      |                  | Outer E  | Exemp. L   |
|  | Pressure                  | OVER AND REPORT AND PROPERTY OF THE PROPERTY O | ig                            | Test Temp            | 557              | °F   |  |
|  | Pressure<br>Pressure      | CONTRACTOR OF THE SEASON AND ADDRESS OF THE SEASON   | ig<br>ig                      | Test Temp  Test Temp |                  | °F   |  |
|  | 11033010                  | P.   | .0                            |                      |                  |  |  |
| . Remarks :<br>SO. MCFI-1SV3, WI                         | ELD SV1F133 &             | k SV1FW3-1   |                               |                      |                  |  | Process (Construction of the Construction of t |
| SO. MCFI-1SM14, V  | VELD SM1F455              | ;  |                               |                      |                  |  |  |
| EAL WELDED SEA   | AT RING TO BO             | DDY  |                               |                      |                  |  |  |
|  |                           |  |                               |                      |                  |  |  |
|  |                           |  |                               |                      |                  |  |  |
|  | (Applicat                 | ole Manufacturer's   | Data Reco                     | rds to be attached)  |                  |  |  |
|  |                           | TIFICATE (   | 25.00                         | ADT TABLOTS          | -                |  |  |
| Signed F.R. S  | Owner or Own              | pp. Alaner's Designee, Titl  | edottikagodos firilogagottivo | Date5/               | 29               | 1  | 9 97   |
|  |                           |  |                               |                      |                  |  |  |
|  | CERTIFIC                  | ATE OF INS   | ERVIC                         | E INSPECTI           | ON               |  |  |
| I, the undersigned,                                      | holding a valid o         | commission issu  | ed by th                      | e National Board     | d of Bo          |  |  |
| Vessel Inspectors a                                      |                           |  |                               |                      |                  |  |  |
| period 4-7-97  | to 5-09-                  | 97; and state  | that to t                     | he best of my kn     | owled            | ge and bel   | ief, the   |
| Owner has perform  | ed examinations           | and taken corre  | ective me                     | easures described    | d in thi         | s Owner's  | Report in  |
| accordance with the<br>By signing this cert              |                           |  |                               |                      | warran           | ity expres   | sed or   |
| implied, concerning                                      |                           |  |                               |                      |                  |  |  |
| Furthermore, neither                                     |                           |  |                               |                      |                  |  | rsonal injur   |
| or property damage                                       | or a loss of any          | kind arising fro   | om or cor                     | nnected with this    | inspec           | ction.   |  |
| /  | D Ini                     |  |                               |                      |                  |  |  |
| R. D. Klein  | Mayer                     | Comm   | issions                       | NB7728, NC8          | Manager Services | Mile of the left that the same state of the same of th |  |
| Date 529   | 997                       |  |                               | National Board, St   | ate, Prov        | vidence and  | Endorsement  |

| 1. | Owner Address:        | Duke Power Company  |           |                  |     | la. Da       | ite 6/11/97               |
|----|-----------------------|---|-----------|------------------|-----|--------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                  |           |                  |     | She          | et 1 of 1                 |
| 2. | Plant Address:        | Mcguire Nuclear Station   |           |                  |     |              |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                 |           |                  |     |              |                           |
| 2a | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)  |           |                  |     |              |                           |
| 3. | Work Performed B      | y: Duke Power Company   |           |                  | 3a. | Work Order # | 96049051                  |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                  |           |                  |     |              | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A           |           |                  | 3b. | NSM or MM#   | N/A                       |
| 4. | (a) Identification of | f System: CF  | 4. (b)    | Class of System: | В   |              |                           |
| 5. | (a) Applicable Cor    | nstructio. Code: ASME III 1971 Edition, Summer and Winter       | Addenda,  | N-416-1          |     | Code Cases   |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, | No Addend | <u>la</u>        |     |              |                           |
| 6. | Identification of Co  | emponents Repaired or Replaced and Replacement Components:      |           |                  |     |              |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1CF-154           | KEROTEST     | TD1-2           | 8567               | N/A                  | 1976       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No<br>Yes                      |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replaceme   | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

7. Description of work: CUT OUT AND REWELDED VALVE WITH WELD

| CF1FW16-9  |  |   |   |  |   |   |  |
|--|--|---|---|--|---|---|--|
| 8. Test Conducted:   | Pressure Pressure Pressure   | PRODUCTION OF THE PROPERTY OF THE PERSON OF | psig<br>psig<br>psig  | Test Temp Test Temp Test Temp Test Temp  | . ☑ Oth   | er  Ex  | empt 🗆   |
| 9. Remarks :   |  |   |   |  |   |   |  |
|  | (Applicat  | ole Manufacture   | r's Data Reco   | ords to be attached)   |   |   |  |
| We certify that he the rules of the AS  Type Code Symbo Certificate of Auth Signed F.R. S  | statements made ME Code, Section I Stamp N/A sorization No. N/A Sorrow Exec. Sup   | in the report on XI.  | are correct   |  | iration Da  | te <u>N/A</u>   | rms to   |
| I, the undersigned, Vessel Inspectors of Hartford Conne period 2-8- Owner has perform accordance with th By signing this cer implied, concernin Furthermore, neith or property damage  R. D. Klein Inspector Date 6-// | holding a valid of and the State or Focticut have inspected for the development of the examinations of the examination of the examination of the examination of the Inspector of | commission is trovidence of cted the comparison in the comparison is and taken confusion from the confusion has and correction his employed kind arising  | ssued by the North Car<br>ponents de ate that to prective made, Section nor his empetive measure byer shall be from or co | colina and employ<br>scribed in this Or<br>the best of my kn<br>leasures described<br>XI.<br>bloyer makes any<br>lares described in<br>e liable in any m | d of Boiler<br>yed by HS<br>wner's Rep<br>nowledge a<br>d in this O<br>warranty,<br>the Owner<br>anner for a<br>s inspectio | BI and I C<br>port during<br>and belief,<br>wher's Rej<br>expressed<br>'s Report.<br>any person | ompany<br>the<br>the<br>port in<br>or<br>al injury |

| 1. | Owner Address:        | Duke Power Company   |     | 1a. Da       | ite 6/11/97              |
|----|-----------------------|--|-----|--------------|--------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She          | et 1 of 1                |
| 2. | Plant Address:        | Mcguire Nuclear Station  |     |              |                          |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |              |                          |
| 2a | . Unit: 🔯 1 🔲 2       | 3 Shared (specify units)   |     |              |                          |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. | Work Order # | 96049052                 |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |     |              | Repair Organization Job# |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM #  | N/A                      |
| 4. | (a) Identification of | f System: CA 4. (b) Class of System:                                       | В   |              |                          |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1  |     | Code Cases   |                          |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                          |
| 6. | Identification of Co  | imponents Repaired or Replaced and Replacement Components:                 |     |              |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | CA PIPING         | DUKE POWER   | N/A             | 32                 | 1CA                  | 1981       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
| В |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

7. Description of work: CUT OUT AND REPLACED PIPING AT WELDS CA1F-

| 1359 AND 1360 ON CA SIDE OF VLV. 1CF152  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Pressure 1050 psig Pressure psig   | Test Temp 544 °F Test Temp 6F Test Temp 7F Test Temp 7F  |  |  |  |  |  |  |
| 9. Remarks:  | Test Temp F  |  |  |  |  |  |  |
| (Applicable Manufacturer's Data Rec  |  |  |  |  |  |  |  |
| We certify that he statements made in the report are correct the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed F.R. Sorrow Exec. Supp.  Owner or Owner's Designee, Title  | Expiration Date N/A  |  |  |  |  |  |  |
| CERTIFICATE OF INSERVI  I, the undersigned, holding a valid commission issued by  Vessel Inspectors and the State or Providence of North Conference of North Conferenc | the National Board of Boiler and Pressure arolina and employed by HSBI and I Conpany described in this Owner's Report during the of the best of my knowledge and belief, the measures described in this Owner's Report in n XI.  Apployer makes any warranty, expressed or sources described in the Owner's Report.  Be liable in any manner for any personal injury connected with this inspection. |  |  |  |  |  |  |

## FORM NIS-2 OWNER'S A ORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:        | Duke Power Company  |         |                    | 1a. Date _July 29, 1997   |
|-----|-----------------------|---|---------|--------------------|---------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                  |         |                    | Sheet 1 of 1              |
| 2.  | Plant Address:        | McGuire Nuclear Station   |         |                    |                           |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                 |         |                    |                           |
| 2a. | Unit: ☑1 □2           | □3 □Shared (specify Units)                                      |         |                    |                           |
| 3.  | Work Performed By     | Duke Power Company  |         | 3a. Work Order #:_ | 96063723                  |
|     | Address:              | 526 S. Church Street, Charlotte NC 28201-1006                   |         |                    | Repair Organization Job # |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A           |         | 3b. NSM or MM #:_  | N/A                       |
| 4.  | (a) Identification of | System: SV - Main Steam Vent to Atmosphere                      | 4. (b)  | Class of System: B |                           |
| 5.  |                       | struction Code: ASME III 1971 Edition, Summer and Winter Add    |         |                    | Code Cases                |
|     | (b) Applicable Editi  | on of Section XI Utilized for Repairs or Replacements: 1989, No | Addenda |                    |                           |

| o. Identification of Components repaired of replaced and replacement | 6. | Identification of Components | Repaired or | Replaced and | Replacement | Components: |
|--|----|------------------------------|-------------|--------------|-------------|-------------|
|--|----|------------------------------|-------------|--------------|-------------|-------------|

|   | Column 1          | Column 2           | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                              | Column 8                         |
|---|-------------------|--------------------|----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg        | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code Stamped<br>(yes or no) |
| Α | 1-SV-MV-0007      | Control Components | 15958-2-2      | 12                 | N/A                  | 1977       | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |                    |                |                    |                      |            | ☑ Replacement                         | ⊠Yes                             |
| В |                   |                    |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □No                              |
|   |                   |                    |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| С |                   |                    |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □No                              |
|   |                   |                    |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| D |                   |                    |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   | 1                 |                    |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| E |                   |                    |                |                    | ,                    |            | ☐ Repaired,<br>☐ Replaced,            | □No                              |
|   |                   |                    |                |                    |                      |            | ☐ Replacement                         | □Yes                             |
| F |                   |                    |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |                    |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| Desc   | cription of Work Repla                                       | aced plug assembly               |                                   |
|--------|--|----------------------------------|-----------------------------------|
| . Test | Conducted:Hydrostatic D                                      | Pneumatic [] Nom. Ope            | erating Press. ☑ Other ☐ Exempt☐  |
|        | Pressure   | psig Test Temp                   | °F                                |
|        | Pressure   | psig Test Temp.                  | °F                                |
|        | Pressure   | psig Test Temp                   | °F                                |
| . Rem  |  |                                  |                                   |
|        | (Applic  | able Manufacturer's Data Records | to be attached)                   |
| Г      | We certify that the statement conforms to the rules of the A |                                  | et and this repair or replacement |

CERTIFICATE OF INSERVICE INSPECTION

Signed Skylow Q FL Grass Jr., QA Tech Specialist Date 2/29/. 19 97

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-27-97 to 7-29-97; and state that to the best of my knowledge and pelief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.

Commissions NB7728, NC853 N-Z
National Board State, Province and Endorsements

Expiration Date N/A

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Owner of Owner's Designee, Title

| 1. | Owner Address:        | Duke Power Company   | 1a. Da           | ate 5/29/97               |
|----|-----------------------|--|------------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | eet ! of 1                |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                  |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                  |                           |
| 2a | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)   |                  |                           |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 96063723                  |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM#   | N/A                       |
| 4. | (a) Identification of | f System: SV 4. (b) Class of System:                                       | _B               |                           |
| 5. | (a) Applicable Cor    | astruction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1 | Code Cases       |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                  |                           |
| 6. | Identification of Co  | omponents Repaired or Replaced and Replacement Components:                 |                  |                           |

|   | Column 1          | Column 2       | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                                      | Column 8                         |
|---|-------------------|----------------|-----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg.   | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement         | ASME Code<br>Stamped (yes or no) |
| A | 1SV-7             | Babcock&Wilcox | 15958-2-2       | 8                  | N/A                  | 1977       | □ Repaired,     □ Replaced,     □ Replacement | □ No ⊠ Yes                       |
| В |                   |                |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement   | □ No □ Yes                       |
| С |                   |                |                 |                    |                      |            | Repaired, Replaced, Replacement               | □ No □ Yes                       |
| D |                   |                |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement         | □ No □ Yes                       |
| Е |                   |                |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement         | □ No                             |
| F |                   |                |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement         | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of work : B   | UILT UP GASKET   | SEATING   | SURFACE   |  |   |
|--|--|---|---|--|---|
| Pressu<br>Pressu   | re 1051  | □ Nom psig psig psig  | Test Temp Test Temp Test Temp Test Temp   | S Other □  551 °F  °F  °F  | Exempt [  |
| . Remarks :  |  |   |   |  |   |
|  |  |   |   |  |   |
| Pressure 1051 psig Test Temp 551 °F Pressure psig Test Temp °F Pressure psig Test Test Test Test Test Test Te |  |   |   |  |   |
| Certificate of Authorization Signed F.R. Sorrow Ex   | No. N/A ec. Supp   | aloga francis beliefer and transport over the state of  |   |  |   |
|  |  |   |   |  | Pressure  |
| Vessel Inspectors and the St<br>of Hartford Connecticut have<br>period 3-2-7-97 to 5<br>Owner has performed exami<br>accordance with the requirer<br>By signing this certificate ne<br>implied, concerning the exar<br>Furthermore, neither the Insp   | ate or Providence of<br>e inspected the comp<br>29 ; and standing and taken coments of ASME Code<br>either the Inspector in<br>minations and correct<br>pector nor his emplo   | f North Car<br>ponents de<br>ate that to<br>prective m<br>de, Section<br>nor his emp<br>ctive measu<br>byer shall b | solina and employe scribed in this Own the best of my kno leasures described in XI. Sloyer makes any wares described in the liable in any man | d by HSBI and<br>her's Report du<br>wledge and be<br>in this Owner's<br>varranty, expres<br>e Owner's Rep<br>iner for any pe | I I Compan<br>aring the<br>lief, the<br>s Report in<br>ssed or<br>port. |
| Inspector's Signatu  | The supplemental and the supplemental of the s | nmissions   | SECURIOR STREET, SECURIOR OF SECURIOR SEC   | THE CONTRACT OF STREET PARTY AND STREET AND STREET   | Endorsement   |

# FORM NIS-2 OWNER'S ORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:        | Duke Power Company   |                 |                  |     |                 | 1a. Date March 3, 1998    |  |
|-----|-----------------------|--|-----------------|------------------|-----|-----------------|---------------------------|--|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006   |                 |                  |     |                 | Sheet 1 of 1              |  |
| 2.  | Plant Address:        | McGuire Nuclear Station  |                 |                  |     |                 |                           |  |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078  |                 |                  |     |                 |                           |  |
| 2a. | Unit: 図1 □2           | □3 □Shared (specify Units)   |                 |                  |     |                 |                           |  |
| 3.  | Work Performed By     |  |                 |                  | 3a. | Work Order # :_ | 96064964                  |  |
|     | Address:              | 526 S. Church Street, Charlotte NC 28201-1006  |                 |                  |     |                 | Repair Organization Job # |  |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |                 |                  | 3b. | NSM or MM #:_   | N/A                       |  |
| 4.  | (a) Identification of | System: NV - Chemical and Volume Control   | 4. (b)          | Class of System: | A   |                 |                           |  |
| 5.  |                       | struction Code: <u>ASME III</u> 19 <u>71</u> Edition, <u>Summer and Winter Adion of Section XI Utilized for Repairs or Replacements: 1989, N</u> | - Aller Control | N/A              |     |                 | Code Cases                |  |
|     |                       |  |                 |                  |     |                 |                           |  |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stamped<br>(yes or no) |
| A | 1-NV-VA-0001      | Borg Warner | 7727           | 66                 | N/A                  | 1978       | ☐ Repaired,<br>☑Replaced,<br>☐ Replacement  | □ No<br>☑Yes                     |
| В |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                       |
| C |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No                             |
| E | A                 |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7.       | Description of Work Replaced valve bonnet, bonnet studs, and bonnet nuts   |
|----------|--|
| 8.       | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. Ø Other ☐ Exempt☐   |
|          | Pressure psig Test Temp. °F  |
|          | Pressurepsig Test Temp°F Pressurepsig Test Temp°F  |
|          | Pressurepsig Test Temp°F   |
| 9.       | Remarks  |
| made son | (Applicable Manufacturer's Data Records to be attached)  |
|          | CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement  |
|          | conforms to the rules of the ASME Code, Section XI.  |
|          | Type Code Symbol Stamp N/A   |
|          | Certificate of Authorization No. N/A Expration Date N/A  |
|          | Signed FL Grass Jr., QA Tech Specialist Date 3/3/, 1998 Owner of Owner's Cesignee, Title   |
|          | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3 0 97 to 3 - 4 - 98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  Commissions NB7738 NC SS N-J National Board, State, Province and Endorsements  Date 3 - 4 1988 |

| 1.  | Owner Address:        | Duke Power Company   | la. Da           | te 6/11/97                |
|-----|-----------------------|--|------------------|---------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | et 1 of 1                 |
| 2.  | Plant Address:        | Mcguire Nuclear Station  |                  |                           |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                  |                           |
| 2a. | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |                  |                           |
| 3.  | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 96066971                  |
|     | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job # |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM #  | N/A                       |
| 4.  | (a) Identification of | f System: CA AND CF 4. (b) Class of System:                                | В                |                           |
| 5.  | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1  | Code Cases       |                           |
|     | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                  |                           |
| 6.  | Identification of Co  | emponents Repaired or Replaced and Replacement Components:                 |                  |                           |

| Column 1        | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|-----------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
| me of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| CA PIPING       | DUKE POWER   | N/A             | 32                 | 1CA                  | 1981       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No  ⊠ Yes                      |
| /LV. 1CF-156    | KEROTEST     | TD1-4           | 8569               | N/A                  | 1976       | ☐ Repaired, ☑ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
|                 |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
|                 |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
|                 |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced,               | □ No                             |
|                 |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced,               | □ No                             |
|                 |              |                 |                    |                      |            |                                       |                                  |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| . Description of work : CUT OUT AND REPLACED P  | IPING ON CA SIDE 1CF-   |
|---|---|
| 56 AND REPLACED DISC IN VLV. 1CF-156  |   |
| Pressure 1050 psig psig Pressure psig psig  | Operating Press. ☑ Other ☐ Exempt ☐  Test Temp °F  Test Temp °F   |
| Remarks:  |   |
|   |   |
| (Applicable Manufacturer's Data Reco  |   |
| We certify that he statements made in the report are correct the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed F.R. Sorrow Exec. Supp. Advance Owner or Owner's Designee, Title  | Expiration Date N/A   |
| CERTIFICATE OF INSERVICE I, the undersigned, holding a valid commission issued by the Vessel Inspectors and the State or Providence of North Care of Hartford Connecticut have inspected the components desperiod 2 10 6 1 97; and state that to the Owner has performed examinations and taken corrective measurements of ASME Code, Section By signing this certificate neither the Inspector nor his empirimplied, concerning the examinations and corrective measurements of the Inspector nor his employer shall be or property damage or a loss of any kind arising from or contents. | ne National Board of Boiler and Pressure rolina and employed by HSBI and I Company scribed in this Owner's Report during the the best of my knowledge and belief, the easures described in this Owner's Report in XI.  Illoyer makes any warranty, expressed or ares described in the Owner's Report.  The initial control is the owner's Report.  The initial control is a series of the owner's Report.  The initial control is a series of the owner's Report. |
| R. D. Klein Commissions  Inspector's Signature  Date 6-11, 1927   | NB7728, NC853, N-I  National Board, State, Providence and Endorsements  |

| 1.  | Owner Address:        | Duke Power Company  |     | 1a. Da       | ite 6/11/97               |
|-----|-----------------------|---|-----|--------------|---------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                            |     | She          | et 1 of 1                 |
| 2.  | Plant Address:        | Mcguire Nuclear Station   |     |              |                           |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                           |     |              |                           |
| 2a. | Unit: 図1 □ 2          | 3 Shared (specify units)  |     |              |                           |
| 3.  | Work Performed By     | Duke Power Company  | 3a. | Work Order # | 96066975                  |
|     | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                            |     |              | Repair Organization Job # |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                     | 3b. | NSM or MM #  | N/A                       |
| 4.  | (a) Identification of | System: CA 4. (b) Class of System:  | В   |              |                           |
| 5.  | (a) Applicable Con    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1 |     | Code Cases   |                           |
|     | (b) Applicable Edit   | ion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                           |
| 6.  | Identification of Co  | mponents Repaired or Replaced and Replacement Components:                 |     |              |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                                    | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code<br>Stamped (yes or no) |
| A | CA PIPING         | DUKE POWER   | N/A             | 32                 | ICA                  | 1981       | ☐ Repaired, ☐ Replaced,                     | □ No                             |
| В |                   |              |                 |                    |                      |            | Replacement Repaired, Replaced, Replacement | ∑ Yes     ☐ No     ☐ Yes         |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement             | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 550,1555,1554, MI  | ND 1355 ON ISO.  | MCFI-1CA  | 112  |  |   |   |  |  |
|--|--|---|--|--|---|---|--|--|
| Test Conducted   | : Hydrostatic 🗆  | Pneumatio   | 0 1  | Nom. Operating Pre   | ess. 🖾  | Other   |  | Exempt [   |
|  | Pressure   | 1050  | psig   | Test Temp  | 54  | 9   | °F   |  |
|  | Pressure   |   | psig   | Test Temp  |   |   | °F   |  |
|  | Pressure   |   | psig   | Test Temp  |   |   | °F   |  |
| Remarks :  |  |   |  |  |   |   |  |  |
|  |  |   |  |  |   |   |  |  |
|  | (Applicat  | ole Manufactur  | rer's Data   | Records to be attached   | )   |   |  |  |
| Type Code Symb   | ool Stamp N/A  |   |  |  |   |   |  |  |
| Certificate of Aut   | sol Stamp N/A<br>thorization No. N/<br>Sorrow Exec. Sup<br>Owner or Own  | p. J.C.   | , Title  | E Date   | xpiratio<br>6/11  | n Date  | <u>N/A</u>   |  |
| I, the undersigned Vessel Inspectors of Hartford Conneriod 2-4-4 Owner has perfor accordance with the By signing this ceimplied, concernifurthermore, neithermore, neithermore | CERTIFIC d, holding a valid of and the State or Precticut have inspective the requirements of the requirements of the examinations the requirements of the examination of the remains the requirements of the examination of the remains the requirements of the requireme | ATE OF I commission rovidence of the configuration and taken of ASME Core in and corrector his empl   | issued of North ponentiate the correction of Section of his sective moyer sh | Date  RVICE INSPECT by the National Bon Carolina and emp ts described in this at to the best of my we measures describ   | FION ard of E loyed by Owner' knowle bed in the Omanner                               | Boiler a<br>y HSBI<br>s Repo<br>dge and<br>his Own<br>anty, ex                                | and P<br>I and ort du<br>d bel<br>ner's<br>xpress<br>s Rep | ressure I Companing the lief, the Report in lies and or lies.                  |
| I, the undersigned Vessel Inspectors of Hartford Conneriod 2-4-4 Owner has perfor accordance with the By signing this ceimplied, concernifurthermore, neithermore, neithermore | CERTIFIC d, holding a valid of and the State or Precticut have inspective the requirements of the requirements of the examinations the requirements of the examination of the remains the requirements of the examination of the remains the requirements of the requireme | ATE OF It commission rovidence of the configuration and taken of ASME Core Inspector ins and correction his emplification with the configuration and correction his emplification arising | issued of North ponentiate the correction of Section of his sective moyer sh | Date  RVICE INSPECT by the National Bon Carolina and empts described in this at to the best of my we measures described in the striction XI.  employer makes an easures described in any or connected with the striction of the str | FION ard of Eloyed by Owner' knowle bed in the Omanner in the Omanner his inspection. | Boiler a<br>y HSB!<br>s Repo<br>dge and<br>his Own<br>anty, ex<br>wher's<br>for an<br>ection. | and P<br>I and ort du<br>d bel<br>ner's<br>xpress<br>s Rep | ressure I Companing the lief, the Report in lies and or lies are lied or lies. |

# FORM NIS-2 OWNER'S ORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:        | Duke Power Company   |          |     |                    |     |                  | ta.       | Date _May 11, 1998 | _ |
|-----|-----------------------|--|----------|-----|--------------------|-----|------------------|-----------|--------------------|---|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006   |          |     |                    |     |                  |           | Sheet 1 of 1       |   |
| 2.  | Plant Address:        | McGuire Nuclear Station  |          |     |                    |     |                  |           |                    |   |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078  |          |     |                    |     |                  |           |                    |   |
| 2a. | Unit: ☑1 □2           | □3 □Shared (specify Units)   |          |     |                    |     |                  |           |                    |   |
| 3.  | Work Performed By     | The second secon |          |     |                    | 3a. | Work Order # : _ | 96        | 5077523            |   |
|     | Address:              | 526 S. Church Street, Charlotte NC 28201-1006  |          |     |                    |     |                  | Repair Or | ganization Job #   |   |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |          |     |                    | 3b. | NSM or MM #:_    | N         | /A                 |   |
| 4.  | (a) Identification of | System: ND - Residual Heat Removal   | 4.       | (b) | Class of System: _ | В   |                  |           |                    |   |
| 5.  |                       | struction Code: ASME III 1971 Edition, Summer and Winter A   |          |     | N/.A               |     |                  | Cox       | te Cases           |   |
|     | (n) Applicable Editi  | on of Section XI Utilized for Repairs or Replacements: 1989,   | NO Adder | iua |                    |     |                  |           |                    |   |

| 6. | Identification of | Components | Repaired or | Replaced and | Replacement | Components: |  |
|----|-------------------|------------|-------------|--------------|-------------|-------------|--|
|    |                   |            |             |              |             |             |  |

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stamped<br>(yes or no) |
| A | 1-MCA-ND-281      | Duke Power  | 00065          | N/A                | N/A                  | N/A        | ☐ Repaired,<br>☑Replaced,<br>☐ Replacement  | ⊠No<br>□ Yes                     |
| В | 1-MCA-ND-281      | Duke Fower  | 20735          | N/A                | N/A                  | N/A        | ☐ Repaired, ☐ Replaced, ☐ Replacement       | ⊠No<br>□ Yes                     |
| С |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| E |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7. | Description of Work Replaced snubber  |
|----|---|
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Ncm. Operating Press. ☐ Other ☐ Exemptø  |
| 9. | Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F Remarks  |
|    | (Applicable Manufacturer's Data Records to be attached)   |
|    | CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 5/u/. 19 98  Owner or Owner's Designee, Title   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 438-98 to 543-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  Commissions AB7738 AV853 A - I National Board, State, Province and Endorsements  National Board, State, Province and Endorsements |

| 1.  | Owner Address:        | Duke Power Company   |    |     |                    |     |                  | 1a.       | Date May 11, 1998  |
|-----|-----------------------|--|----|-----|--------------------|-----|------------------|-----------|--------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006   |    |     |                    |     |                  |           | Sheet _ 1 _ of _ 1 |
| 2.  | Plant Address:        | McGuire Nuclear Station  |    |     |                    |     |                  |           |                    |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078  |    |     |                    |     |                  |           |                    |
| 2a. | Unit: 図1 □2           | □3 □Shared (specify Units)   |    |     |                    |     |                  |           |                    |
| 3.  | Work Performed By     | AND ADDRESS OF THE PARTY OF THE |    |     |                    | 3a. | Work Order # : _ | 96        | 6078981            |
|     | Address:              | 526 S. Church Street, Charlotte NC 28201-1006  |    |     |                    |     |                  | Repair On | ganization Job #   |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |    |     |                    | 3b. | NSM or MM #:_    | N         | /A                 |
| 4.  | (a) Identification of | System: FW - Refueling Water   | 4. | (b) | Class of System: _ | В   |                  |           |                    |
| 5.  |                       | struction Code: <u>ASME III</u> 1971 Edition, <u>Summer and Winter Ade</u><br>on of Section XI Utilized for Repairs or Replacements: <u>1989, No</u>   |    |     | N/A                |     |                  | Cod       | e Cases            |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stamped<br>(yes or no) |
| A | 1-FW-HG-121       | Duke Power  | 19552          | N/A                | N/A                  | N/A        | ☐ Repaired,<br>☑Replaced,<br>☐ Replacement  | ⊠No<br>□ Yes                     |
| В | 1-FW-HG-121       | Duke Power  | 15118          | N/A                | N/A                  | N/A        | ☐ Repaired,<br>☐ Replaced,<br>☑Replacement  | ☑No ☐ Yes                        |
| С |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| E |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7. | Description of Work Replaced Snubber   |
|----|--|
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempte   |
|    | Pressurepsig Test Temp°F   |
|    | Pressurepsig Test Temp°F   |
|    | Pressurepsig Test Temp°F   |
| 9. | Remarks  |
| _  |  |
| _  | (Applicable Manufacturer's Data Records to be attached)  |
|    | CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 5/11/, 19 98  Owner of Owner's Designee, Title   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 4-28-96 to 5-13-18; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  Commissions NR 7728 NC 653, N -Z |

Inspector's Signature

National Board, State, Province and Endorsements

| 1. | Owner Address:        | Duke Power Company   |     | 1a. Da       | te <u>7/23/97</u>         |
|----|-----------------------|--|-----|--------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She          | et 1 of 3                 |
| 2. | Plant Address:        | Mcguire Nuclear Station  |     |              |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |              |                           |
| 2a | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)   |     |              |                           |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. | Work Order # | 96079358                  |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |     |              | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM#   | MGMM-8289                 |
| 4. | (a) Identification of | f System: NV- Chemical and Volume Control 4. (b) Class of System:          | В   |              |                           |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1  |     | Code Cases   |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                           |
| 6. | Identification of Co  | mponents Repaired or Replaced and Replacement Components:                  |     |              |                           |

|   | Column 1          | Column 2       | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|----------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.   | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | NV-system         | Duke Power Co. | N/A             | 37                 | 1NV                  | 1981       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| В | Valve INV-464     | Kerotest       | CG41-14         | 151                | 091-008              | 1973       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
| С | Valve INV-464     | Kerotest       | ABS-18-10       | 35251              | 09J-007              | 1983       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| D | Valve INV457A     | Fisher         | 5896366         | 1867               | 1NV457A              | 1976       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No  ☑ Yes                      |
| Е | Valve 1NV457A     | Anchor-Darling | EZ797-1-1       | 1966               | 1MV-436              | 1997       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ☑ Yes                       |
| F | Valve 1NV458A     | Fisher         | 5896367         | 1868               | 1NV458A              | 1976       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ⊠ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of work: Replaced piping (5D-Bends), Orifice 1NVFE-6200, Valves 1NV-464,  |
|--|
| 1NV-457A, 1NV-458A, and Valve bodies for 1NV-35A & 1NV-459, also hanger modifications, also replaced disc in valve 1NV35A  |
| 8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☑ Other ☐ Exempt ☐  |
| Pressure psig Test Temp °F   |
| Pressure psig Test Temp °F   |
| Pressure psig Test Temp °F   |
| 9. Remarks: Changed all welds to Butt weld connections in immediate area.  |
| (Applicable Manufacturer's Data Records to be attached)  |
| CERTIFICATE OF COMPLIANCE  We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A  Certificate of Authorization No. N/A  Signed H.K. Sherrill Tech Spec II Halk, Sherrill Date July 23 19 97  Owner o. Owner's Designee, Title  |
|  |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2-3-97 to 7-24-97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or amplied, concerning the examinations and corrective measures described in the Owner's 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. |
| R. D. Klein Allein Commissions NB7728, NC853, N-I Inspector's Signature National Board, State, Providence and Endorsements Date 724, 1997  |

| 1. | Owner Address:        | Duke Power Company   | la. Da          | te 7/23/97               |
|----|-----------------------|--|-----------------|--------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She             | et 2 of 3                |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                 |                          |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                 |                          |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |                 |                          |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. Work Order# | 96079358                 |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                 | Repair Organization Job# |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM # | MGMM-8289                |
| 4. | (a) Identification of | f System: NV-Chemical and Volume Control 4. (b) Class of System:           | В               |                          |
| 5. | (a) Applicable Cor    | astruction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1 | Code Cases      |                          |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                 |                          |
| 6. | Identification of Co  | emponents Repaired or Replaced and Replacement Components:                 |                 |                          |

|   | Column 1               | Column 2                            | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|------------------------|-------------------------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component      | Name of Mfg.                        | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | Valve 1NV-458A         | Anchor-Darling                      | EZ797-1-2       | 1967               | 1MV-436              | 1997       | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                        |                                     |                 |                    |                      |            | Replacement                           | ⊠ Yes                            |
| В | Valve 1NV-35A          | Anchor-Darling                      | S/N-4           | N/A                | 09J-102              | 1994       | ☐ Repaired, ☑ Replaced,               | □ No                             |
|   | (valve body)           |                                     |                 |                    |                      |            | Replacement                           | Yes                              |
| C | Valve 1NV-459          | Anchor-Darling                      | DB-171-1-1      | 1223               | MCV-213              | 1990       | ☐ Repaired, ☑ Replaced,               | □ No                             |
|   | (valve body)           |                                     | (see remarks)   |                    |                      |            | ☐ Replacement                         |                                  |
| D | Orifice 1NVFE-6200     | Commercial Energy<br>Products Corp. | 0001            | N/A                | 1NVFE-6200           | 1993       | ☐ Repaired, ☐ Replaced,               | □ No                             |
| _ |                        | rioducis corp.                      |                 |                    |                      |            | Replacement                           |                                  |
| E | Orifice 1NVFE-6200     | Energy Steel & Supply               | NPT013439       | N/A                | 1NVFE-6200           | 1997       | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                        | Comp.                               | ITEM 01-1       |                    |                      |            | ☑ Replacement                         |                                  |
| F | 1MCR-NV-1178<br>HANGER | Duke Power Co.                      | N/A             | N/A                | N/A                  | 1981       | ☐ Repaired,<br>☐ Replaced,            | ⊠ No                             |
|   | TITATOEK               |                                     |                 |                    |                      |            | □ Replacement                         | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2

in. x 11 in. (2) information in items 1 through 6 on this 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. 7. Description of work: See sheet 1 8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☒ Other ☐ Exempt ☐ psig Test Temp
psig Test Temp
psig Test Temp Pressure Pressure Pressure Remarks Existing NV letdown orifice may be replaced in stock for possible re-use.: See attached letter from Anchor Darling concerning valve serial numbers used for valve 1NV-459 (Applicable Manufacturer's Data Records to be attached) CERTIFICATE OF COMPLIANCE We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A H.K. Sherrill Tech Spec II Halk, Sherrill Date July 23 19 97 Signed CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2-3-97 to 724 97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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. R. D. Klein Commissions NB7728, NC853, N-1
Inspector's Signature National Board, State, Provi National Board, State, Providence and Endorsements

| 1. | Owner Address:       | Duke Power Company   |     | la. Da       | ite 7/23/97              |
|----|----------------------|--|-----|--------------|--------------------------|
|    |                      | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She          | et 3 of 3                |
| 2. | Plant Address:       | Mcguire Nuclear Station  |     |              |                          |
|    |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |              |                          |
| 2a | . Unit: 🛛 1 🔲 2      | 3 Shared (specify units)   |     |              |                          |
| 3. | Work Performed B     | y: Duke Power Company  | 3a. | Work Order # | 96079358                 |
|    | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                             |     |              | Repair Organization Job# |
|    | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM #  | MGMM-8289                |
| 4. | (a) Identification o | f System: NV-Chemical & Volume Control 4. (b) Class of System:             | В   |              |                          |
| 5. | (a) Applicable Con   | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-416-1  |     | Code Cases   |                          |
|    | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                          |
| 6. | Identification of Co | rononents Renaised or Replaced and Replacement Components:                 |     |              |                          |

|   | Column 1               | Column 2         | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7  | Column                           |
|---|------------------------|------------------|-----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component      | Name of Mfg.     | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement   | ASME Code<br>Stamped (yes or no) |
| A | 1MCR-NV-1191<br>HANGER | Duke Power Co.   | N/A             | N/A                | N/A                  | 1981       | ☐ Repaired, ☐ Replaced,   | ⊠ No                             |
| - |                        |                  | -               | -                  |                      |            | □ Replacement   | ☐ Yes                            |
| В | 1MCR-NV-1187<br>HANGER | Duke Power Co.   | N/A             | N/A                | N/A                  | 1981       | ☐ Repaired,<br>☐ Replaced,  | ⊠ No                             |
| - |                        |                  |                 |                    |                      |            | □ Replacement   | ☐ Yes                            |
| C | 1MCR-NV-1091<br>HANGER | Duke Power Co.   | N/A             | N/A                | N/A                  | 1981       | ☐ Repaired, ☐ Replaced,   | ⊠ No                             |
| - |                        |                  |                 |                    |                      |            | Replacement     Repla | ☐ Yes                            |
| D | Valve INV-459          | Anchor - Darling | DB-171-1-2      | N/A                | MCV-213              | 1997       | ☐ Repaired,<br>☐ Replaced,  | ⊠ No                             |
| _ | (valve body)           |                  | (see remarks)   |                    |                      |            | □ Replacement   | ☐ Yes                            |
| E | Valve 1NV-35/.         | Anchor - Darling | P162D-1-1       | N/A                | 09J-102              | 1997       | ☐ Repaired, ☐ Replaced,   | ⊠ No                             |
|   | (valve body)           |                  |                 |                    |                      |            | □ Replacement   | ☐ Yes                            |
| F |                        |                  |                 |                    |                      |            | ☐ Repaired, ☐ Replaced,   | □ No                             |
|   |                        |                  |                 |                    |                      |            | Replacement   | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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. 7. Description of work: See sheet 1 8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☑ Other ☐ Exempt ☐ 
 Pressure
 psig
 Test Temp
 °F

 Pressure
 psig
 Test Temp
 °F

 Pressure
 psig
 Test Temp
 °F
 9. Remarks: Hangers 1MCR-NV-1090 and 1MCR-NV-1092 have been deleted and removed by this M/M. Hangers 1MCR-NV-1091, NV-1178, NV-1187, NV-1191 had minor changes per VN-8289B. (Applicable Manufacturer's Data Records to be attached) CERTIFICATE OF COMPLIANCE We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A H.K. Sherrill Tech Spec II Halk Sherrill Date July 23 19 97

Owner or Owner's Designee, Title Certificate of Authorization No. N/A Signed CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 2-3-97 to 7-24-97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of 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 the Owner's 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.

R. D. Klein Commissions NB7728, NC853, N-I Inspector's Signature National Board, State, Providence National Board, Provid

Date 224 . 1997

National Board, State, Providence and Endorsements

SENT BY: ANCHOR DARLING;

7-22-97 2:11PM; 717 327 4922 =>

704 875 5664;

#1/1



BW/IP International, Inc.

Anchori Darling Valves BWRP Valvesu and Actuators 701 First Street P.O. Box 3428 Williamsport Penneywania 17701-0428 Telephone 717 327 4800 Fax ' 717 327 4806

July 22, 1997

Duke Power Company Fax: 704-875-5664

Attention:

Hal Sherrill

Subject:

P.O. MN24166, BW/IP (A/DV) S.O. D-031A

Telecon dated 7/22/97

The replacement bodies furnished under the subject purchase order were serialized in a manner inconsistent with our normal practice. The original valves, furnished in 1990, were serialized DB171-1-1 and DB171-1-2 and used bodies serial numbers 1 and 2 respectively. Since the valves are a unique design and since the replacement bodies should not be used anyplace else, our engineering thought it would be helpful if the replacement bodies were identified with the original valve serial number.

This method of serialization of bodies is acceptable but is not typical of our practice. Please be assured that in the future, BW/IP will not serialize individual parts with the serial number of the associated valve.

Sincerely,

BW/IP INTERNATIONAL, INC.

Drieber

Valve Division

G. W. Knieser

Q A. Manager

GWK:dl

## FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

As Required by the Provisions of the ASME Code, Sacti

| Manufactured and certified by Er   | nergy Steel & Suppl  | y Co., 2715 Pal  | dan Dr. Aub           | Pg. 1 of _                  |
|--|--|--|-----------------------|-----------------------------|
|  |  | (name and address of NP  | T Certificate Holder) |                             |
| Manufactured for Duke Power  | Ob., MoQuire Nuclear St  | name and address of Purch  | Ferry Rd., Ha         | ntersville, NC 28078        |
| ocation of installation Dike Powe<br>MM-1210.06-0217001  | er Co., McQuire Nuclear<br>SA564 TP630 H900  |  | ers Ferry Rd          | Hintersville, NC 2807       |
| ype: Rev.D-O   | SA479 TP304  | 75KSI  | N/A                   | 1997                        |
| (drawing no.)  | (mat'l. spec. no.)   | (tensile strength)   | (CRN)                 | (year built)                |
| SME Code, Section III, Division 1  | . 1989   | 1989   | 2                     | N62-6                       |
| and the second s | (edition)  | (addenda date)   | (class)               | (Code Case no.)             |
| abricated in accordance with Cor   | nst Spec (Div 2 only)  | A Revision   | N/A                   | N/A                         |
|  |  | (no.)  | n                     | Date                        |
| lemarks:75GPM  |  |  |                       |                             |
|  |  |  |                       |                             |
|  |  |  |                       |                             |
|  |  |  |                       |                             |
| and Abiatana di N  |  | 66   | 1 600                 | 5.015                       |
| iom. thickness (in.)   |  |  |                       | th overall (ft & in.) 5.011 |
| Vhen applicable, Certificate Holde   | ers' Data Reports are attached   | for each item of this rep  | oort:                 |                             |
|  |  |  |                       |                             |
| Part or Assurtaness  |  |  |                       |                             |
| Part or Appurtenance<br>Serial Number  | National   |  | ppurtenance           | National                    |
| Serial Number  | Board No.  | Serial   | Number                | Board No.                   |
|  | in Numerical Order   |  |                       | in Numerical Order          |
| (1) NPI013439FTFM01-1  |  |  |                       |                             |
| (2)  |  |  |                       |                             |
| (3)  |  |  |                       |                             |
| (4)  |  |  |                       |                             |
| (5)  |  |  |                       |                             |
| (6)  |  |  |                       |                             |
|  | THE PARTY OF THE P | 131/   |                       |                             |
|  |  | 1/221  |                       |                             |
| (7)  |  |  |                       |                             |
| (7)(8)   |  | (33)   |                       |                             |
| (7)  |  | (33)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)   |                       |                             |
| (7)  |  | (33)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)   |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)<br>(42)   |                       |                             |
| (7) (8) (9) 10) 11) 12) 13) 14) 15) 16) 17)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)<br>(42)<br>(43)                                 |                       |                             |
| (7) (8) (9) 10) 11) 12) 13) 14) 15) 16) 17) 18)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)<br>(42)<br>(43)<br>(44)                         |                       |                             |
| (7) (8) (9) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)<br>(42)<br>(43)<br>(44)<br>(45)                 |                       |                             |
| (7)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)<br>(42)<br>(43)<br>(44)<br>(45)<br>(46)         |                       |                             |
| (7) (8) (9) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19) 20) 21)  |  | (33)<br>(34)<br>(35)<br>(36)<br>(37)<br>(38)<br>(39)<br>(40)<br>(41)<br>(42)<br>(43)<br>(44)<br>(45)<br>(46)<br>(47) |                       |                             |

<sup>\*</sup> Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## FORM N-2 (Back - Pg. 2 of \_\_\_\_\_)

|   | Certificate Hol                             | der's Serial Nos                     |                               | through   |
|---|---|--------------------------------------|-------------------------------|---|
|   | CERTIFICATION OF DE                         | SIGN                                 |                               |   |
| Design specifications certified by  | (when applicable)                           | P.E                                  | State                         | Reg. no   |
| Design report* certified by   | hen applicable)                             | P.E                                  | State                         | Reg. no   |
| C   | ERTIFICATE OF COMPL                         | IANCE                                |                               |   |
| We certify that the statements made in this report are corr<br>conforms to the rules of construction of the ASME Code, S    |   | LET DOWN                             | ORIFICE                       |   |
| NPT Certificate of Authorization No. N-2928   |   | Expires7                             | /12/99                        |   |
| Date 2/11/97 Name Energy Steel & INPT Certification   | Supply Co.                                  | Signed                               | lauthylized                   | fepresentative)                                 |
| C   | ERTIFICATE OF INSPEC                        | CTION                                |                               |   |
| l, the undersigned, holding a valid commission issued by t<br>Michigan and employed by Hartford                             | ne National Board of Boil<br>Steam Boiler ] | er and Pressure Vesi<br>Inspection & | sel Inspectors a<br>Insurance | nd the State or Province of                     |
| of Hartford, CT have inspected these items  |   |                                      |                               |   |
| best of my knowledge and belief, the Certificate Holder ha  |   |                                      |                               |   |
| III, Division 1. Each part listed has been authorized for stan  | nping on the date shown                     | above.                               |                               |   |
| By signing this certificate, neither the inspector nor his em   |   |                                      |                               |   |
| in this Data Report. Furthermore, neither the inspector nor<br>loss of any kind arising from or connected with this inspect |   | ole in any manner for                | any personal in               | njury or property damage or                     |
| Date 2-11-97 Signed Tarlous   | ) Osc<br>Inspector                          | Commissions IN                       | NB9486 IBS                    | SNISA MI610 ements) and state or prov. and no.) |

NO. 005564

Page 1



#### CERTIFICATE OF COMPLIANCE

Ship-to: 3
DUKE POWER / MCGUIRE SITE
RECEIVING DEPARTMENT
13225 HAGERS FERRY RD HWY 73
HUNTERSVILLE, NC 28078-8985

Bill-to: 81 DUKE POWER COMPANY INVOICE OPERATIONS - PB 02G P.O. BOX 1015 CHARLOTTE, NC 28201-1015

CHARLOTTE, NC 28201-1015 YOUR ORDER NUMBER OUR ORDER NUMBER DATE 013439 02/11/97 DUR ITEM# DESCRIPTION TOTAL GRADE SPEC HEAT NUMBER 105 1.00 EA LETDOWN ORIFICE 2" BW 75 GPM QTY: 1.00 NPT013439ITEM01-1 YOUR ITEM 001 - DE#: 1003G3BB4Y0B020 PER DRAWING: MCM-1210.06-0217-001 Rev.D-0 WITH EXCEPTIONS TO MARKING OF ORIFICE. CODE CASE: N62-6 APPLIES SPECIFICATION DPS-1206.00-02-0001 Rev.7 APPLIES This is to certify that the material furnished for your order and described above, has been reviewed and complies to requirements of < the applicable material specifications, and meets all requirements < of your purchase order. < 10 CFR PART 21 APPLIES < 10 CFR 50 APPENDIX B APPLIES < ANSI N45.2 APPLIES < PACKAGING IN ACCORDANCE WITH ANSI N45.2.2 LEVEL C < THIS ORDER WAS SUPPLIED IN ACCORDANCE WITH OUR CERTIFICATE OF < AUTHORIZATION (N-2928) WHICH EXPIRES ON 7/12/99, AND < ESSC Q-1 NUCLEAR Q.A. PROGRAM ISSUE No.1 Rev.1 DATED 3/27/96. < COMPLIES TO THE APPLICABLE REQUIREMENTS, AS SPECIFIED, OF ASME SECTION III, SUB=SECTION NC, CLASS 2, 1989 EDITION 1989 ADDENDA

DUKE POWER COMPANY

QA\_RECORDS APPROVED

DA REPRESENTATIVE

DATE 2-18-97

ENERGY STEEL & SUPPLY CO.

Authorized Q.A. Signature

# FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Div. 1 1 of 2

| Name and Address  Valve  | rolina 2   |
|--|--|
| Location of Installation    McGuire Nuclear Station, HWY. 73, Cowans Ford, North Care   North Care   North Care  | rolina 28 3/4" (inch) (g) Year Built   |
| Pump or Valve  | (g) Year   |
| Pump or Valve  | (inch) (g) Year Built  |
| (a) Model No., (b) N Certificate Holder's (c) Canadian Series No. Serial Registration (d) Drawing (f) Nat'l nor Type No. No. No. No. (e) Class Bd. No.  (1) GLOBE (SEE ATTACHED N/A DP-D-9954-(1) 1 35243 (2) SHEET) THRU (3) 35262 (4) (5) (6) (7) (8) (9) (10) BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi (Temperature) F or Valve Pressure Class 1500#  (Pressure) (Pressure) 35000 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark  (a) Castings | (inch) (g) Year Built  |
| Series No.   | Built  |
| or Type No. No. No. (e) Class 8d. No.  (1) GLOBE (SEE ATTACHED N/A DP-D-9954-(1) 1 35243 (2) SHEET) THRU (3) 35262 (4) 35262 (5) (6) (7) (8) (9) (10) BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 'F or Valve Pressure Class 1500#  Cold Working Pressure 3600 psi at 100'F.  Mark No. Material Spec. No. Manufacturer Remark.  (a) Castings  | Built  |
| (1) GLOBE (SEE ATTACHED N/A DP-D-9954-(1) 1 35243 (2) SHEET) THRU (3) 35262 (4) 35262 (4) (5) (6) (7) (8) (9) (10) BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  Cold Working Pressure 3600 psi at 100°F.  Mark No. Material Spec. No. Manufacturer Remarks (a) Castings   | -  |
| (2) SHEET) THRU (3) 35262  (4) 35262  (5) [6] [7] [8] [9] [10] BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remarks  (a) Castings   | 1983   |
| (3) 35262  (4) (5) (6) (7) (8) (9) (10) BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1.500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  |  |
| (4) (5) (6) (7) (8) (9) (10) BORATED WATER (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1.500# (Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark.  (a) Castings  |  |
| (6) (7) (8) (9) (10)  BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1.500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark.  (a) Castings   |  |
| (6) (7) (8) (9) (10)  BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark.  (a) Castings  |  |
| (8) (9) (10)  BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remarks  (a) Castings  |  |
| (8) (9) (10)  BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remarks  (a) Castings  |  |
| BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark  (a) Castings   |  |
| BORATED WATER  (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1.500#  (Pressure) (Temperature)  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remarks  (a) Castings   |  |
| (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark.  (a) Castings   |  |
| (Brief description of service for which equipment was designed)  Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark.  (a) Castings   |  |
| Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark  (a) Castings   |  |
| Design Conditions 2580 psi 650 F or Valve Pressure Class 1500#  (Pressure) (Temperature)  Cold Working Pressure 3600 psi at 100°F.  Pressure Retaining Pieces  Mark No. Material Spec. No. Manufacturer Remark:  (a) Castings  |  |
| (a) Castings   |  |
|  | KS   |
| (b) Forgings   |  |
| (b) Forgings   |  |
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| (b) Forgings   |  |
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| (b) Forgings   |  |
|  | The second distribution of the second distributi |
|  |  |
| BODY-ABS SA182, F316 McWilliams Forge  |  |
| YOKE-JSE SA105 McWilliams Forge  | -  |
|  |  |
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|  |  |
|  |  |

<sup>1)</sup> For manually operated valves only.

<sup>\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

| SANCHED PROPERTY AND ADDRESS OF THE PARTY OF |  |  |  |
|--|--|--|--|
| Mark No.   | Material Spec. No.   | Manufacturer   | Remarks  |
| (c) Bolting  |  |  |  |
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| (d) Other Parts  | CA/70 TUTE 216   | Compostor  | THE RESERVE OF THE PROPERTY OF |
| DISC-ACK   | SA479, TYPE 316  | Carpenter Joslyn Steels  |  |
| BONNET-ACE   | SA479, TYPE 316<br>SA479, TYPE 316   | Universal-Cyclops  | ***************************************  |
| DOMET-ACE  | 54115. 1111. 510   | OIIIVEI SGI-CYCIODS  |  |
| AND  |  |  |  |
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| PERSONAL REPORTAGE AND ADDRESS |  |  |  |
| Hydrostatic test 5400  | psi. Disk Differential test pressure 36  | 600 psi  |  |
|  |  |  |  |
| (N Certificate H<br>ur ASME Certificate of Auth  | 1000   | use the N symbol e   | xpires 4-25-83<br>(Date)   |
|  | CERTIFICATION (  | OF DESIGN  | Conference of the second secon |
| anian information on file as   |  |  |  |
|  |  | Com Dittaly and DA   |  |
| The same of the same   |  | Corp., Pittsburgh, PA<br>anufacturing Corporation  |  |
|  | 1 only) on file at <u>Kerotest Ma</u>  | nufacturing Corporation  |  |
| esign specifications certified   | only) on file at <u>Kerotest Ma</u> by (1) <u>Robert E. Mille</u>  | nufacturing Corporation  |  |
| esign specifications certified<br>State North Carolin  | only) on file at <u>Kerotest Made</u> by (1) <u>Robert E. Mille</u>  | nufacturing Corporation  |  |
| esign specifications certified  State North Carolin ress analysis certified by (1)   | d by (1) Robert E. Mille  Reg. No. 4960  Steven Caroleo  | nufacturing Corporation  |  |
| esign specifications certified<br>Estate North Carolin<br>ress analysis certified by (1)<br>Estate Pennsylvania  | only) on file at Kerotest Ma<br>by (1) Robert E. Mille<br>Reg. No. 4960<br>Steven Caroleo<br>Reg. No. 17144-E  | nufacturing Corporation  |  |
| esign specifications certified E State North Carolin tress analysis certified by (1) E State Pennsylvania ) Signature not required. Lis  | only) on file at Kerotest Made by (1) Robert E. Mille Bareg. No. 4960  Steven Caroleo Reg. No. 17144-E  st name only.  | nufacturing Corporation  |  |
| esign specifications certified Estate North Carolin ress analysis certified by (1) Estate Pennsylvania ) Signature not required. Lis   | only) on file at Kerotest Made by (1) Robert E. Mille Dage. No. 4960 Steven Caroleo Reg. No. 17144-E st name only.   | P INSPECTION   |  |
| esign specifications certified  State North Carolin ress analysis certified by (1)  State Pennsylvania  Signature not required. List  the undersigned, holding a   | only) on file at Kerotest Made by (1) Robert E. Mille Dage. No. 4960 Steven Caroleo Reg. No. 17144-E st name only.  CERTIFICATE OF SHO   | P INSPECTION   | ure Vessel Inspectors  |
| esign specifications certified  State North Carolin ress analysis certified by (1)  State Pennsylvania  Signature not required. List the undersigned, holding a d the State or Province of   | only) on file at Kerotest Made by (1) Robert E. Mille Dang. No. 4960  Steven Caroleo Reg. No. 17144-E  st name only.  CERTIFICATE OF SHOW YEAR OF SHOW Pennsylvania  | P INSPECTION  National Bo 1 of Boiler and Press.  And ampio. by HSB I&I Co   | mpany  |
| esign specifications certified  State North Carolin ress analysis certified by (1) State Pennsylvania Signature not required. Lis the undersigned, holding a d the State or Province of  | tonly) on file at Kerotest Made by (1) Robert E. Mille deg. No. 4960 ) Steven Caroleo Reg. No. 17144-E st name only.  CERTIFICATE OF SHOTE | P INSPECTION  National Bo 1 of Boiler and Press. and employ by HSB I&I Co  | mpany  |
| esign specifications certified  State North Carolin ress analysis certified by (1) State Pennsylvania Signature not required. List the undersigned, holding a d the State or Province of   | tonly) on file at Kerotest Made by (1) Robert E. Mille Berg. No. 4960 ) Steven Caroleo Reg. No. 17144-E st name only.  CERTIFICATE OF SHOW A STANDARD STANDA | P INSPECTION  National Bc 1 of Boiler and Press and employ by HSB I&I Co   | mpany  |
| esign specifications certified  State North Carolin ress analysis certified by (1) State Pennsylvania Signature not required. Lis the undersigned, holding a d the State or Province of  Sartified Co  | tonly) on file at Kerotest Made by (1) Robert E. Mille deg. No. 4960 ) Steven Caroleo Reg. No. 17144-E st name only.  CERTIFICATE OF SHOTE | National Bo 1 of Boiler and Press. and employ by HSB I&I Come pump, or valve, escribed in offmy knowledge and a lief, the N Cert Section III.  | mpany this Data Report on ificate Holder has con-  |
| esign specifications certified  State North Carolin ress analysis certified by (1) State Pennsylvania Signature not required. Lis the undersigned, holding a d the State or Province of  Janting Co  J | tonly) on file at Kerotest Made by (1) Robert E. Mille Beg. No. 4960 ) Steven Caroleo Reg. No. 17144-E st name only.  CERTIFICATE OF SHOW I valid commission issued by the Pennsylvania  Denocticut have inspected the second accordance with the ASME Code, ither the Inspector nor his employed.   | P INSPECTION  National Bo 1 of Boiler and Press and employ by HSB I&I Co ne pump, or valve, escribed in of my knowledge and L lief, the N Cert Section III.  | this Data Report on ifficate Holder has con-   |
| esign specifications certified  State North Carolin tress analysis certified by (1)  State Pennsylvania  Signature not required. List the undersigned, holding as difference of the state or Province of the state or Province of the state of the state or province or pr | tonly) on file at Kerotest Managery (1) Robert E. Mille 1986. No. 4960 1 Steven Caroleo Reg. No. 17144-E  st name only.  CERTIFICATE OF SHOW Pennsylvania  Dinecticut have inspected the second accordance with the ASME Code, wither the Inspector nor his employed his Data Report. Furthermore, neith   | National Bo of Boiler and Presson and employ by HSB I&I Come pump, or valve, escribed in Section III.  | this Data Report on ifficate Holder has con-   |
| esign specifications certified E State North Carolin tress analysis certified by (1) E State Pennsylvania ) Signature not required. List the undersigned, holding a d the State or Province of  The control of the state of the state or province or provinc | tonly) on file at Kerotest Managery (1) Robert E. Mille 1986. No. 4960 1 Steven Caroleo Reg. No. 17144-E  st name only.  CERTIFICATE OF SHOW Pennsylvania  Dinecticut have inspected the second accordance with the ASME Code, wither the Inspector nor his employed his Data Report. Furthermore, neith   | National Born of Boiler and Press. and employ by HSB I&I Come pump, or valve, escribed in Section III.  If makes any warranty, empressed on the Inspector was his employer any kind arising from or connected with the section III.  | this Data Report on ifficate Holder has con-   |

#### SUPPLEMENT SHEET

#### FORM NPV-1

## (FOR NATIONAL BOARD NUMBERS ONLY)

| 1. | MANUFACTURED | BY: | Kerotest | Manufacturing | Corp., | Pittsburgh, | PA | 15222                          | NU-89618   | Ite | em |
|----|--------------|-----|----------|---------------|--------|-------------|----|--------------------------------|--|-----|----|
|    |              |     |          |               |        |             |    | A STATE OF THE PERSON NAMED IN | And the same of th |     | 00 |

2. MANUFACTURED FOR: Duke Power Company P.O. Box 32307 Charlotte, North Carolina 28232

3. LOCATION OF INSTALLATION: McGuire Nuclear Station, Cowans Ford, North Carolina 28216

4. TYPE OF EQUIPMENT: Y-GLOBE DRAWING NUMBER: DP-D-9954-(1)

| MANUFACTURER'S<br>SERIAL NO. | NATIONAL<br>BOARD NO. |     | UFACTURER'S<br>ERIAL NO. | NATIONAL<br>BOARD NO. |
|------------------------------|-----------------------|-----|--------------------------|-----------------------|
| 1. ABS18-1                   | 35243                 | 13. | ABS18-14                 | 35255                 |
| 2. ABS18-2                   | 35244                 | 14. | ABS18-15                 | 35256                 |
| 3. ABS18-3                   | 35245                 | 15. | ABS18-16                 | 35257                 |
| 4. ABS18-4                   | 35246                 | 16. | ABS18-18                 | 35258                 |
| 5. ABS18-6                   | 35247                 | 17. | ABS18-19                 | 35259                 |
| 6. ABS18-7                   | 35248                 | 18. | ABS18-22                 | 35260                 |
| 7. ABS18-8                   | 35249                 | 19. | ABS18-23                 | 35261                 |
| ABS18-9                      | 35250                 | 20. | ABS18-24                 | 35262                 |
| 9. ABS18-10                  | 35251                 | 21. |                          |                       |
| 0. ABS18-11                  | 35252                 |     |                          |                       |
| 7. ABS18-12                  | 35253                 | 1   |                          |                       |
| 2. ABS18-13                  | 35254                 |     |                          |                       |

5. SERVICE: BORATED WATER

SIGNED: KEROTEST MANUFACTURING CORP. BY:

AUTHORIZED NUCLEAR INSPECTOR BY:

DATE: MAR 2 8

L DATE: 3/30/83

## FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES® As Required by the Provisions of the ASME Code, Section III, Division 1

| Pg. 1 of | - |
|----------|---|
|----------|---|

|   | 1. Manufactured and certified by Anch  | nor/Darling Valve Co   | o., 701 First St.  | , Williamsport, PA 177   |
|---|--|--|--|--|
|   |  | one eman)  | address of N Certificate Holder  |  |
| W | 2. Manufactured for <u>Duke Power</u>  |  | Charlotte, NC  | 28201-1015   |
|   | 3. Location of installation McGuire  |  |  | Pond Buntareville NC   |
|   | 3. Location of installation  |  | me and address)  | The second secon |
|   |  |  |  | 28078-8985   |
|   | 4. Model No., Series No., or Type  | Drawing W96  | 524753 Rev. D  | CRN_N/A  |
|   | 5. ASME Code, Section III, Division 1:   | 1986   | 1988 2   | N/A  |
|   |  | (edition) (adder   | nda date) (class)  | (Code Case no.)  |
|   | 6. Pump or valveValve  | Nominal inlet size 2"  | Outlet size  | 2"   |
|   | 6. Pullip of valve   | (in.)  | Outlet Size  | (in.) SA453-660B   |
|   | 7. Material: Body SA351-CF8M   | Bonnet SA351-CF8M  | Disk SA479-316L  |  |
|   | 7. Material: Body  | Bonnet   | Disk Sh479-316L  | Bolting SA194-8M   |
|   | (a) (b)  | (c)  | (d)  | (e)  |
|   | Cert. Nat'l  | Body   | Bonnet   | Disk   |
|   | Holder's Board   | Serial   | Serial -   | Serial   |
|   | Serial No. No.   | No.  | * No.  | No.  |
|   | E2797-1-1 1966   | 1  | 9  | 7 & 8  |
|   | EZ797-1-2 1967   | 2  | 13   | 9 & 10   |
|   | EZ797-1-3 1968   | 6  | 12   | 11 & 12  |
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|   |  |  | PERSONAL PROPERTY NAMED IN COLUMN ASSESSMENT | **************************************   |
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|   | ***************************************  |  |  | Market Market Market Market Tourness State Colonial |
|   | Annahing distribution  | APPENDING THE PROPERTY OF THE  | COLUMN CO | TO THE OWNER OF THE PERSON NAMED IN COLUMN 1   |
|   | Martin Martin Martin Contyry Ingene Salvin   |  | ONTERPORT OF STREET, S |  |
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(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 493

MN 16486 ITEM 001

Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. EZ797-1-3

| 8. De   | sign conditions   | (pressure)  | psi   | (temperature)      | eF or valve  | pressure class   | 1878   |
|---|---|---|---|--------------------|--|--|--|
| 9. Co   | old working pressure  | 4507  | psi at 1  | 100°F              |  |  |  |
| 0. Hy   | drostatic test  | 5775 psi  | . Disk differe  | ential test pressu | re49   | 958  |  |
| 1. Aa   | marke:  |   |   |                    |  |  |  |
|   |   |   |   |                    |  |  |  |
|   |   |   | CERTIFI   | CATION OF DE       | SIGN   |  |  |
| Design  | n Specification certi   | fied by Robert  | t M. Sand   | ifer               | DE C S.  | C. Pag   | 5752   |
|   | Report certified by   | Ronald  | S. Farrel   | 1                  | P.E. State PA  | Reg.   | no. 035216-E   |
|   |   |   |   |                    |  |  |  |
|   |   | CONTRACTOR | Paramon merupada ar sabaran, arras, abrah   |                    |  | -  | The second secon |
|   |   |   | CERTIFIC  | ATE OF COMPL       | IANCE  |  |  |
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|   | rtify that the statem   |   | report are con  |                    |  | conforms to the re   | ules for construct   |
| of the  | ASME Code, Section  | n III, Division 1.  | report are con  | rect and that thi  |  |  |  |
| of the<br>N Cert                                | ASME Code, Section in the Asmer Code of Authorizate of Authorizate of Authorizate Code of | on III, Division 1.   | report are con  | rect and that thi  | s pump or valve  | xpires4/15   |  |
| of the<br>N Cert                                | ASME Code, Section  | tion No   | report are con  | rect and that thi  | s pump or valve  | xpires4/15   | 198<br>Ker_  |
| of the<br>N Cert                                | ASME Code, Section in the Asmer Code of Authorizate of Authorizate of Authorizate Code of | tion No   | N1712   | rect and that thi  | s pump or valve  | xpires 4/15  | 198<br>Ker_  |
| of the<br>N Cert                                | ASME Code, Section in the Asmer Code of Authorizate of Authorizate of Authorizate Code of | tion No   | N1712   | rect and that thi  | s pump or valve  | xpires 4/15  | 198<br>Ker_  |
| of the<br>N Cert                                | ASME Code, Section in the Asmer Code of Authorizate of Authorizate of Authorizate Code of | tion No   | N1712 Darling V   | rect and that thi  | s pump or valve  | xpires 4/15  | 198<br>Ker_  |
| of the<br>N Cert                                | ASME Code, Section ifficate of Authorized 2-27-97 Na  | on III, Division 1.   | N1712 Darling Y Certificate Hol   | alve Compa         | s pump or valve Enrysigned Z   | xpires4/15   | /98<br>Kn_<br>reentative)  |
| of the<br>N Cert                                | ASME Code, Section of Authorized 2-27-97 Na   | n III, Division 1. tion No  | N1712 Darling Y Certificate Hol   | Alve Compader)     | s pump or valve  EnrySigned Z  | xpires4/15  PL DLL (outhorized repre   | /98<br>Kn_<br>reentative)  |
| of the<br>N Cert<br>Date                        | ASME Code, Section of Landscape of Authorized 2-27-97 Na undersigned, holdingte 92000000000000000000000000000000000000  | n III, Division 1. tion No  | N1712 Darling Y Certificate Hol   | ATE OF INSPEC      | s pump or valve  EnrySigned Z  TION  Board of Boiler   | Apires 4/15  R DLL  (outhorized representation)  | /98  Kon_ Exentative)  |
| of the N Cert                                   | undersigned, holding Boston, Ma   | n III, Division 1. tion No  | N1712 Darling V Certificate Hole C RTIFIC   | CATE OF INSPEC     | ENYSigned Z  | Apires 4/15  R DU  (authorized representation of the pressure Vector | /98  Kon_ Interest   Inspectors a line   Inspe |
| of the N Cert                                   | ASME Code, Section of Landscape of Authorized 2-27-97 Na undersigned, holdingte 92000000000000000000000000000000000000  | n III, Division 1. tion No  | N1712 Darling V Certificate Hole C RTIFIC   | CATE OF INSPEC     | ENYSigned Z  | Apires 4/15  R DU  (authorized representation of the pressure Vector | /98  Kon_ Exentative)  |
| Date  | undersigned, holding are september & a large with the september & a large | n III, Division 1. tion No  | N1712 Darling Y Certificate Hole C RTIFIC ssion issued to vania tate that to the with the ASM | CATE OF INSPEC     | EINYSigned EINYSigned ETION  Board of Boiler employed by Lid the pump, or vinowledge and bin III, Division 1.  | and Pressure Ve  | reentative)  ssel Inspectors a Union Ins. this Data Report ate Holder has co   |
| Date I, the the Structor structor By signompoon | undersigned, holding at a spectrum, Ma Boston, Ma Boston, Ma and this pump, or valuing this certificate onent described in the  | n III, Division 1. tion No  | C RTIFIC ssion issued to with the ASA ector nor his furthermore, in                           | CATE OF INSPEC     | ETION  Board of Boiler employed byd the pump, or v nowledge and b n III, Division 1.   | and Pressure Versiele, the Certific expressed or imployer shall be liab  | reentative)  ssel Inspectors a Union Ins. this Data Report ate Holder has co   |
| Date I, the the Structor structor By signompoon | undersigned, holding ate spectrum, Ma   | n III, Division 1. tion No  | C RTIFIC ssion issued to with the ASA ector nor his furthermore, in                           | CATE OF INSPEC     | ETION  Board of Boiler employed byd the pump, or v nowledge and b n III, Division 1.   | and Pressure Vertical alve, described in elief, the Certific expressed or imposory shall be liable to this inspection  | reentative)  ssel Inspectors a Union Ins. Ithis Data Report ate Holder has co  |
| I, the the Structe By sig composeny pe          | undersigned, holding at a spectrum, Ma Boston, Ma Boston, Ma and this pump, or valuing this certificate onent described in the  | n III, Division 1. tion No  | C RTIFIC ssion issued to with the ASA ector nor his furthermore, in                           | CATE OF INSPEC     | ETION  Board of Boiler employed by Led the pump, or vinowledge and bin III, Division 1.  seny warranty, ctor nor his employed with the pump or connected wit | and Pressure Versiele, the Certific expressed or imployer shall be liab  | reentative)  ssel Inspectors a Union Ins. Ithis Data Report ate Holder has co  |

(1) For manually operated valves only.

### Anchor/Darling Valve Company



Log No. R96.076 Rev. B Page

A/DV Calculation Order:

EZ797-1

Customer Purchase Order:

MN 16486

A/DV Order No. E797 Design and Seismic Analysis for Duke Power Co. McGuire Station

2"x1" Class 1878 Stainless Steel Double Disc Gate Valve with #70 Fail Close Diaphragm Actuator

Customer Specification:

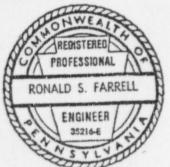
CNS-1205.01-00-0003, Rev. 7

Applicable Codes:

ASME Boiler & Pressure Vessel Code, Section III Subsection NC (Class 2), 1986 Edition, 1988 Addenda

| A/DV I.D. | ECM | Customer I.D. | Assy. Dwg. No.  |
|-----------|-----|---------------|-----------------|
| EZ797-1   | 07  | IMV-436       | W9624753 Rev. D |
|           |     |               |                 |

I, the undersigned, being a registered professional engineer competent in the applicable field of design, have reviewed the subject design and do hereby certify that to the best of my knowledge and belief this report is complete and accurate and complies with the requirements of the design specification and all codes and standards specified herein.



Registration No.: PE-035216-E

State: PA

MN 16486

ANI W

### FORM NIS-2 OWNER'S OR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

| AND    |
|--------|
|        |
| 100000 |
| -      |

| 1.  | Owner Address:                | Duke Power Company   |        |                    | 1a. Date _July 15, 1937               |
|-----|-------------------------------|--|--------|--------------------|---------------------------------------|
|     |                               | 526 S. Church Street, Charlotte, NC 28201-1006   |        |                    | Sheet 1 of 1                          |
| 2.  | Plant Address:                | McGuire Nuclear Station  |        |                    |                                       |
|     |                               | 12700 Hagers Ferry Road, Huntersville, NC 28078  |        |                    |                                       |
| 2a. | Unit: ☑1 □2                   | □3 □Shared (specify Units)   |        |                    |                                       |
| 3.  | Work Performed By<br>Address: | Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006   |        | 3a. Work Order #:_ | 96079587<br>Repair Organization Job # |
|     | Type Code Symbol              | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |        | 3b. NSM or MM #:_  | N/A                                   |
| 4.  | (a) Identification of         | System: SM - Main Steam  | 4. (0) | Class of System: B |                                       |
| 5.  |                               | struction Code: ASME III 1971 Edition, Summer and Winter Addition of Section XI Utilized for Repairs or Replacements: 1989, No |        | None               | Code Cases                            |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stamped<br>(yes or no) |
| A | 1-SM-VA-0101      | Kerotest    | TM5-12         | 12307              | N/A                  | 1976       | ☐ Repaired,<br>☐ Replaced,<br>☑ Replacement | □ No ☑ Yes                       |
| В |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No                             |
| С |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| E |                   |             |                |                    | ,                    |            | ☐ Repaired,☐ Replaced,☐ Replacement         | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| Pressure  | Test Cond | ucted:Hydrostatic (    | ☐ Pneumatic ☐ Nom. Operating Pre-                          | ss. 🗹 Other 🗆 Exemp |
|---|-----------|------------------------|--|---------------------|
| Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F Pressurepsig Test Temp°F  Remarks  |           | Pressure               | psig Test Temp°F   |                     |
| Pressure  |           | Pressure               | psig Test Temp°F   |                     |
| CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 2/15/92, 19  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-5 1 to 7-17 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.                                 |           | Pressure               | psig Test Temp°F   |                     |
| CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Owper or Owner's Designee, Titls  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-5 to 7-17; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.                  | Remarks   |                        |  |                     |
| CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 1/5/92, 19  Owper or Owner's Designee, Titls  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 3-5 to 7-17; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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. |           | (Applic                | able Manufacturer's Data Records to be attached            | )                   |
| We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 1/5/92, 19  Owper or Owner's Designee, Title  CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut, have inspected the components described in this Owner's Report during the period 3-5 10 1-12 (2); and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.                        | -         | V 7F                   |  |                     |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut, have inspected the components described in this Owner's Report during the period 3.5 10 to 7.17 cm; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  |           |                        | <u>/A</u>  |                     |
| Dellin Commissions NB7728, NC853, N-I   | Certific  | ate of Authorization N | O. N/A Expiration  Grass Jr., QA Tech Specialist Date 2/15 |                     |



6. Identification of Components Repaired or Replaced and Replacement Components:

## FORM NIS-2 OWNER'S ROOT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

|   |    | ~ | - |    |
|---|----|---|---|----|
| A | Œ. | A |   | ь. |
| 蠢 |    |   |   |    |
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| 쀙 |    |   |   | 37 |
| 7 | œ  |   |   | ,  |

| 1.  | Owner Address:        | Duke Power Company   |          |                    |     |                | 1a. Date August 13, 1997 |
|-----|-----------------------|--|----------|--------------------|-----|----------------|--------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006   |          |                    |     |                | Sheet 1 of 1             |
| 2.  | Plant Address:        | McGuire Nuclear Station  |          |                    |     |                |                          |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078  |          |                    |     |                |                          |
| 2a. | Unit: 図1 □2           | □3 □Shared (specify Units  |          |                    |     |                |                          |
| 3.  | ,                     | The state of the s |          |                    | 3a. | Work Order # : | 96087622                 |
|     | Address:              | 526 S. Church Street, Charlotte NC 28201-1006  |          |                    |     |                | Repair Organization Job# |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |          |                    | 3b. | NSM or MM #:_  | N/A                      |
| 4.  | (a) Identification of | System: ND - Residual Heat Removal   | _ 4. (b) | Class of System: _ | В   |                |                          |
| 5.  |                       | struction Code: <u>ASME III</u> 1971 Edition, <u>Summer and Winter</u> on of Section XI Utilized for Repairs or Replacements: <u>1989</u> ,  |          | None               |     |                | Code Cases               |
|     |                       |  |          |                    |     |                |                          |

|   | Column 1          | Column 2       | Column 3       | Column 4           | Column 5             | Col 6      | Column 7  | Column 8                         |
|---|-------------------|----------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg    | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement               | ASME Code Stamped<br>(yes or no) |
| А | 1-ND-VA-0015B     | Crane - Aloyco | A0213          | N/A                | N/A                  | 1973       | ☐ Repaired, ☐ Replaced,                             | □ No                             |
| В |                   |                |                |                    |                      |            | ☐ Replacement ☐ Repaired, ☐ Replaced, ☐ Replacement | ⊠Yes □ No □ Yes                  |
| С |                   |                |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |
| D |                   |                |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |
| E |                   |                |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |
| F |                   |                |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,                          | □No                              |
|   |                   |                |                |                    |                      |            | ☐ Replacement                                       | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7. | Description of Work Replaced (32) body to bonnet bolting nuts.  |
|----|---|
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☑ Other ☐ Exempt   |
|    | Pressure psig Test Temp. °F   |
|    | Pressurepsig Test Temp°F Pressurepsig Test Temp°F   |
|    | Pressurepsig Test Temp°F  |
| 9. | Remarks   |
|    |   |
|    | (Applicable Manufacturer's Data Records to be attached)   |
|    | We certify that the statements made in the report are correct and this repair or replacement conforms to the Lies of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 8/13/, 1997 Owner or Owner's Designee, Title   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 378-97 to 873-97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.  Commissions 1877 28 NC 853 N - I National Board, State, Province and Endersements  Date 8-13 1997 |

### FORM NIS-2 OWNER'S PORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:                              | Duke Power Company  |                     |     |                  | 1a. Date May 28, 1997     |
|-----|---|---|---------------------|-----|------------------|---------------------------|
|     |   | 526 S. Church Street, Charlotte, NC 28201-1006  |                     |     |                  | Sheet 1 of 1              |
| 2.  | Plant Address:                              | McGuire Nuclear Station   |                     |     |                  |                           |
|     |   | 12700 Hagers Ferry Road, Huntersville, NC 28078   |                     |     |                  |                           |
| 2a. | Unit: ☑1 □2                                 | □3 □Shared (specify Units)  |                     |     |                  |                           |
| 3.  | Work Performed By                           |   |                     | 3a. | Work Order # : _ | 96089202                  |
|     | Address:                                    | 526 S. Church Street, Charlotte NC 28201-1006   |                     |     |                  | Repair Organization Job # |
|     | Type Code Symbol                            | Stamp: N/A Authorization No. N/A Expiration Date: N/A   |                     | 3b. | NSM or MM #:_    | MGMM-7852                 |
| 4.  | (a) Identification of                       | System: NS - Containment Spray 4. (I  | b) Class of System: | В   |                  |                           |
| 5.  | (a) Applicable Con:<br>(b) Applicable Editi | struction Code: <u>ASME III</u> 19 <u>71</u> Edition, <u>Summer and Winter Addenda</u> , on of Section XI Utilized for Repairs or Replacements: <u>1989</u> , <u>No Addenda</u> | None                |     |                  | Code Cases                |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2    | Coiumn 3       | Column 4           | Column 5             | Col 6      | Column 7                                    | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stamped<br>(yes or no) |
| A | 1NS-HG-H0091      | Duke Power  | N/A            | N/A                | N/A                  | N/A        | ☐ Repaired,<br>☐ Replaced,<br>☑ Replacement | ☑ No □ Yes                       |
| В |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                       |
| C |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| E |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,                  | □No                              |
|   |                   |             |                |                    |                      |            | ☐ Replacement                               | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7. | Description   | of Work Added pl  | ate per MGMM-7852  |   |
|----|---|---|--|---|
| 8. | Test Condu  | cted:Hydrostatic [  | ☐ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempt   | V |
|    |   | Pressure  | psig Test Temp°F   |   |
|    |   | Pressure  | psig Test Temp°Fpsig Test Temp°Fpsig Test Temp°F   |   |
|    |   | Pressure  | psig Test Terrip°F   |   |
| 9. | Remarks   |   |  |   |
|    |   |   |  | _ |
|    |   | (Applic   | able Manufacturer's Data Records to be attached)   |   |
|    | Type C<br>Certifica   | ns to the rules of the A<br>ode Symbol Stamp N<br>ate of Authorization N  |  |   |
|    | Pressu<br>and I C<br>Owner<br>knowle<br>describ<br>By sign<br>or impl<br>Report<br>person<br>inspec | ndersigned, holding a<br>re Vessel Inspectors of<br>Company of Hartford Co<br>'s Report during the pedge and belief, the Oped in this Owner's Re-<br>ning this certificate ne-<br>lied, concerning the est.<br>Furthermore, neither<br>all injury or property de- | valid commission issued by the National Board of Boiler and and the State or Province of North Carolina and employed by HSBI Connecticut have inspected the components described in this eriod 17 to 17 and state that to the best of my where has performed examinations and taken corrective measures eport in accordance with the requirements of ASME Code, Section XI. Without the Inspector nor his employer makes any warranty, expressed examinations and corrective measures described in the Owner's er the Inspector nor his employer shall be liable in any manner for any amage or a loss of any kind arising from or connected with this  Commissions 187728 16 853 11 - 7  National Board, State, Province and Endorsements |   |

### FORM NIS-2 OWNER'S A 'RT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

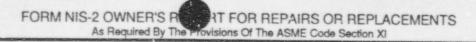
| 1.    | Owner Address:                | Duke Power Company  |                    | 1a. Date July 24, 1997                |
|-------|-------------------------------|---|--------------------|---------------------------------------|
| 2.    |                               | 526 S. Church Street, Charlotte, NC 28201-1006  |                    | Sheet 1 of 1                          |
| 2.    | Plant Address:                | McGuire Nuclear Station  12700 Hagers Ferry Road, Huntersville, NC 28078  |                    |                                       |
| 2a.   | Unit: ☑1 □2                   | □3 □Shared (specify Units)  |                    |                                       |
| 3.    | Work Performed By<br>Address: | Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006  | 3a. Work Order #:_ | 96095348<br>Repair Organization Job # |
|       | Type Code Symbol              | Stamp: N/A Authorization No. N/A Expiration Date: N/A   | 3b. NSM or MM #:_  | MGMM 8484                             |
| 4. 5. | (a) Applicable Con            | System: NV - Chemical and Volume Control 4. (b) Class of System: struction Code: ASME III 1971 Edition, Summer and Winter Addenda, None on of Section XI Utilized for Repairs or Replacements: 1989, No Addenda | В                  | Code Cases                            |

6. Identification of Components Repaired or Replaced and Replacement Components:

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7  | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mig | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement               | ASME Code Stamped<br>(yes or no) |
| A | 1-NV-VA-0459      | Fisher      | 5921362        | 760                | N/A                  | 1975       | ☐ Repaired,<br>☐ Replaced,                          | □ No                             |
| В |                   |             |                |                    |                      |            | ☐ Replacement ☐ Repaired, ☐ Replaced, ☐ Replacement | ☑Yes ☐ No ☐ Yes                  |
| C |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement         | □ No □ Yes                       |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |
| E |                   |             |                |                    | ,                    |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement         | □ No □ Yes                       |
| F |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement         | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| . Test | Conducted:Hydrostatic ☐ Pne   | eumatic ☐ Nom. Operating Press. ☑ Other ☐ Exempt                                |
|--------|---|---|
|        |   |   |
|        | Pressure  | psig Test Temp°F<br>psig Test Temp°F  |
|        | Pressure  | psig Test Temp°F  |
| . Rem  |   |   |
|        | (Applicable Ma  | anufacturer's Data Records to be attached)                                      |
| Г      | We certify that the statements made conforms to the rules of the ASME ( | FICATE OF COMPLIANCE e in the report are correct and this repair or replacement |
|        |   | Sode, Sodion XI.  |
|        | Type Code Symbol Stamp N/A Certificate of Authorization No. N/A         | Expiration Date N/A   |
|        |   | //  |
|        | Signed State FL Grass Owner or Owner's Designee,                        | Jr., QA Tech Specialist Date _ z/ay/, 19 92                                     |



|   |     | 9  |    |
|---|-----|----|----|
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| , | di. | 20 |    |

| 1.  | Owner Address:                             | 526 S. Church Street, Charlotte, NC 28201-1006  |                |                  | 1a. Date <u>August 13, 1997</u> Sheet 1 of 1 |
|-----|--|---|----------------|------------------|--|
| 2.  | Plant Address:                             | McGuire Nuclear Station  12700 Hagers Ferry Road, Huntersville, NC 28078  |                |                  |  |
| 2a. | Unit: 図1 □2                                | □3 □Shared (specify Units)  |                |                  |  |
| 3.  | Work Performed By<br>Address:              | Duke Power Company 526 S. Church Street, Charlotte NC 28201-1006  | 3              | a. Work Order #: | 96095867<br>Repair Organization Job #        |
|     | Type Code Symbol                           | Stamp: N/A Authorization No. N/A Expiration Date: N/A   | 3              | b. NSM or MM #:_ | N/A  |
| 4.  | (a) Identification of                      | System: NV - Chemical and Volume Control 4. (b) Class   | s of System: B |                  |  |
| 5.  | (a) Applicable Con<br>(b) Applicable Editi | struction Code: <u>ASME III</u> 1971 Edition, <u>Summer and Winter Addenda</u> , Non of Section XI Utilized for Repairs or Replacements: 1989, No Addenda | lone           |                  | Code Cases                                   |
| 6.  | Identification of Com                      | ponents Repaired or Replaced and Replacement Components:  |                |                  |  |

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7  | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---|----------------------------------|
| _ | Name of Component | Name of Mig | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement               | ASME Code Stamped<br>(yes or no) |
| A | 1-NV-VA-0170      | Dresser     | TD36185        | 200                | Model# 1905-1        | 1976       | ☐ Repaired,<br>☐ Replaced,                          | □No                              |
| В |                   |             |                |                    |                      |            | ☐ Replacement ☐ Repaired, ☐ Replaced, ☐ Replacement | ☑ Yes                            |
| С |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement         | □ No                             |
| D |                   |             |                |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement               | □ No □ Yes                       |
| E |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,                          | □No                              |
| F |                   |             |                |                    |                      |            | ☐ Replacement ☐ Repaired, ☐ Replaced,               | ☐ Yes<br>☐ No                    |
|   |                   |             |                |                    |                      |            | ☐ Replacement                                       | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7. | Description of Work Replaced Disc   |
|----|---|
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☑ Other ☐ Exempt☐  |
|    | Pressurepsig Test Temp°F  |
|    | Pressurepsig Test Temp°F  |
| 9. | Pressurepsig Test Temp°F  Remarks   |
|    |   |
|    | (Appiicable Manufacturer's Data Records to be attached)   |
|    | CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.   |
|    | Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A   |
|    | Signed FL Grass Jr., QA Tech Specialist Date 8/13/, 1997 Owner or Owner's Designee, Title   |
|    | CERTIFICATE OF INSERVICE INSPECTION   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 7-17-97 to 8-13-97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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

Inspector's Signature

Date 8-13 1997

National Board, State, Province and Endorsements

Commissions NB 7728, NC 853, N-

| 1.  | Owner Address:       | Duke Power Company   |     | la. Da       | te 5/29/97                |
|-----|----------------------|--|-----|--------------|---------------------------|
|     |                      | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She          | et <u>1</u> of <u>1</u>   |
| 2.  | Plant Address:       | Mcguire Nuclear Station  |     |              |                           |
|     |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |              |                           |
| 2a. | Unit: 🛛 1 🔲 2        | 3 Shared (specify units)   |     |              |                           |
| 3.  | Work Performed B     | y: Duke Power Company  | 3a. | Work Order # | 97008153                  |
|     | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                             |     |              | Repair Organization Job # |
|     | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM #  | N/A                       |
| 4.  | (a) Identification o | 1 System: CF 4. (b) Class of System:                                       | В   |              |                           |
| 5.  | (a) Applicable Cor   | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A      |     | Code Cases   |                           |
|     | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |              |                           |
| 6.  | Identification of Co | imponents Repaired or Replaced and Replacement Components:                 |     |              |                           |
|     |                      |  |     |              |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1CF-162           | WALWORTH     | A0162           | N/A                | N/A                  | 1973       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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. 7. Description of work: REPLACED DISC 8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempt ☒ Test Temp Pressure Test Temp Pressure psig Test Temp psig Pressure 9. Remarks (Applicable Manufacturer's Data Records to be attached) CERTIFICATE OF COMPLIANCE We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A F.R. Sorrow Exec. Supp. Africa Date 5/29
Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 43-97 to 529-97; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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.

R. D. Klein—Commissions NB7728, NC853, N-I
Inspector's Signature Commissions NB7728, NC853, N-I
National Board, State, Provi

Page 2 of 2 Revision 5

National Board, State, Providence and Endorsements



## FORM NIS-2 OWNER'S ORT FOR REPAIRS OR REPLACEMENTS As Required By The Provisions Of The ASME Code Section XI

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| ч |    |   | ø | F |

| 1.  | Owner Address:                            | Duke Power Company   |                    |     |                  | 1a. Date July 14, 1997    |
|-----|---|--|--------------------|-----|------------------|---------------------------|
|     |   | 526 S. Church Street, Charlotte, NC 28201-1006   |                    |     |                  | Sheet _ 1_ of _1          |
| 2.  | Plant Address:                            | McGuire Nuclear Station  |                    |     |                  |                           |
|     |   | 12700 Hagers Ferry Road, Huntersville, NC 28078  |                    |     |                  |                           |
| 2a. | Unit: ☑1 □2                               | □3 □Shared (specify Units)   |                    |     |                  |                           |
| 3   | Work Performed By                         | : Duke Power Company   |                    | 3a. | Work Order # : _ | 97014313                  |
|     | Address:                                  | 526 S. Church Street, Charlotte NC 28201-1006  |                    |     |                  | Repair Organization Job # |
|     | Type Code Symbol                          | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |                    | 3b. | NSM or MM #:_    | N/A                       |
| 4.  | (a) Identification of                     | System: CF - Feedwater   | Class of System: _ | В   |                  |                           |
| 5.  | (a) Applicable Cor<br>(b) Applicable Edit | struction Code: <u>ASME III</u> 19 <u>71</u> Edition, <u>Summer and Winter</u> Addenda,<br>ion of Section XI Utilized for Repairs or Replacements: <u>1989</u> , No Addend | None               |     |                  | Code Cases                |

6. Identification of Components Repaired or Replaced and Replacement Components:

| -  | Column 1          | Column 2    | Column 3       | Column 4           | Column 5   | Col 6      | Column 7                                    | Column 8                        |
|----|-------------------|-------------|----------------|--------------------|--|------------|---|---------------------------------|
|    | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification   | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code Stampe<br>(yes or no) |
| A  | 1-MCA-CF-0157     | Duke Power  | 20554          | N/A                | N/A  | N/A        | ☐ Repaired,<br>☑ Replaced,<br>☐ Replacement | ☑ No<br>□ Yes                   |
| В  | 1-MCA-CF-0157     | Duke Power  | 15855          | N/A                | N/A  | N/A        | ☐ Repaired,<br>☐ Replaced,<br>☑ Replacement | ☑ No ☐ Yes                      |
| С  |                   |             |                |                    | The state of the s |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                      |
| D  |                   |             |                |                    |  |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                      |
| F. |                   |             |                |                    | .,   |            | ☐ Repaired,<br>☐ Replaced,<br>☐ Replacement | □ No □ Yes                      |
| F  |                   |             |                |                    |  |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                      |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 through 6 on this 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.

| 7. | Description of Work_Replaced Snubber   |
|----|--|
|    |  |
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempt ☑  |
|    | Pressurepsig Test Temp°F   |
|    | Pressurepsig Test Temp°F Pressurepsig Test Temp°F  |
|    | Pressurepsig Test Temp°F   |
| 9. | Remarks  |
|    |  |
|    |  |
|    | (Applicable Manufacturer's Data Records to be attached)  |
|    | We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed FL Grass Jr., QA Tech Specialist Date 2/14/, 19 47  Owner or Owner's Designee, Title   |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 192 to 7422; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or properly damage or a loss of any kind arising from or connected with this inspection.  Commissions SB775 WIGHT No. |

| 1. | Owner Address:        | Duke Power Company   |              | la. Dat      | te 6/11/97               |
|----|-----------------------|--|--------------|--------------|--------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             |              | Shee         | et <u>1</u> of <u>1</u>  |
| 2. | Plant Address:        | Mcguire Nuclear Station  |              |              |                          |
|    |                       | 12700 Hagers F rry Road, Huntersville, NC 28078                            |              |              |                          |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)   |              |              |                          |
| 3. | Work Performed B      | y: Duke Power Company  | 3a.          | Work Order # | 97015939                 |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |              |              | Repair Organization Job# |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b.          | NSM or MM #  | N/A                      |
| 4. | (a) Identification of | f System: NI 4. (b) Class  | of System: B |              |                          |
| 5. | (a) Applicable Con    | nstruction Code: ASME III 1971 Edition, Summer and Winter Addenda, N-41    |              | Code Cases   |                          |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |              |              |                          |
| 6  | Identification of Co  | omponents Renaired or Replaced and Replacement Components:                 |              |              |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Pepaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1NI-16            | KEROTEST     | JS3-6           | 8016               | N/A                  | 1975       | ☐ Repaired, ☑ Replaced, ☐ Replacement | □ No ⊠ Yes                       |
| В | 1NI-16            | KEROTEST     | DAP-14-16       | 35216              | N/A                  | 1983       | ☐ Repaired, ☐ Replaced, ☒ Replacement | □ No  ☑ Yes                      |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| E |                   | *            |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of work: CUT OUT AND REPLACED V   | ALVE WITH LIKE KIND   |
|--|---|
| AND REPLACED DISC  |   |
| 8. Test Conducted: Hydrostatic Pneumatic Nom.  Pressure 2600 psig Pressure psig Pressure psig  | Operating Press. ☑ Other ☐ Exempt ☐  Test Temp  |
| 9. Remarks:  |   |
|  |   |
|  |   |
|  |   |
| ***************************************  |   |
|  |   |
| (A-di-bl. M. fared Day B.  | -d- to be established)  |
| (Applicable Manufacturer's Data Reco   | rds to be attached)   |
| Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Signed F.R. Sorrow Exec. Supp. Sorrow Exec. Supp. Owner or Owner's Designee, Title   | Expiration Date <u>N/A</u> — Date <u>6/11</u> 19 <u>97</u>  |
|  |   |
| CFRTIFICATE OF INSERVICE   |   |
| I, the undersigned, holding a valid commission issued by the Vessel Inspectors and the State or Providence of North Canof Hartford Connecticut have inspected the components desperied 4-1-7 to 3-73; and state that to the Owner has performed examinations and taken corrective meaccordance with the requirements of ASME Code, Section By signing this certificate neither the Inspector nor his emplied, concerning the examinations and corrective measure. Furthermore, neither the Inspector nor his employer shall be or property damage or a loss of any kind arising from or content. | olina and employed by HSB1 and I Company scribed in this Owner's Report during the the best of my knowledge and belief, the easures described in this Owner's Report in XI.  Hoyer makes any warranty, expressed or tree described in the Owner's Report.  The liable in any manner for any personal injury |
| R. D. Klein Alexer Commissions Inspector's Signature   | NB7728, NC853, N-I National Board, State, Providence and Endorsements   |
| Date 6/2 . 1997  |   |

## FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. As Required by the Provisions of the ASME Code, Section III, Div. 1

|                      | ured by Ke                                      | (Name and Address )  | of N Certificate b               | folder)                                 | te North                | Canalina              | 38333                                   |
|----------------------|---|--|----------------------------------|---|-------------------------|-----------------------|---|
|                      | of Installation                                 | (Name and Address of P<br>McGuire Nuclear  | Purchaser or Owner)              |   |                         |                       |   |
|                      |   | (Name and Address) valve   |                                  |   | . /                     |                       | 1/2"                                    |
| Pump or              |   |  |                                  | 111161 2156                             | nch)                    | tlet Size 1-          | (inch)                                  |
|                      |   | ) N Certificate Holder's   |                                  |   |                         |                       |   |
|                      | eries No.<br>or Type                            | Serial<br>No.  | Registration<br>No.              | (d) Drawing<br>No.                      | (e) Class               | (f) Nat'l.<br>Bd. No. | (g) Year<br>Built                       |
|                      |   |  |                                  |   |                         |                       |   |
| 1) GLC               | BE  | (SEE ATTACHED)   | N/A DI                           | P-D-9957P-(1)                           | ) 1                     | 35208<br>thru         | 1983                                    |
| (2)                  |   |  |                                  |   |                         | 35217                 | *************************************** |
| 4)                   |   |  |                                  | *************************************** |                         |                       |   |
| 5)                   |   |  |                                  | *******************************         |                         |                       |   |
| 6)                   |   |  |                                  |   |                         |                       |   |
| 7)                   |   |  |                                  |   |                         |                       |   |
| 8)                   |   |  |                                  |   |                         |                       |   |
| 91                   |   |  | -                                |   |                         |                       |   |
| (0)                  |   | THE RESERVE OF THE PERSON ASSESSMENT ASSESSM |                                  |   |                         |                       |   |
|                      |   | Borated Wa   |                                  |   |                         |                       |   |
|                      |   |  |                                  | hich equipment was o                    | designed)               |                       |   |
| old Wor              | onditions<br>king Pressure<br>Retaining Piec    | 2580 psi -<br>(Fressure) 3600 psi at   | (Temperature)<br>it 100°F.       |   | Pressure Class          | 1500#                 | (1                                      |
| old Wor              | king Pressure                                   | 2580 psi   | (Temperature)                    |   |                         | 1500#                 |   |
| ressure              | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Cold Wor             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Pressure             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Cold Wor             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Pressure             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Cold Wor             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Cold Wor             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Cold Wor             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       |   |
| Cold Wor             | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       | (5)                                     |
| cold Word            | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       | (5)                                     |
| cold Wor<br>Pressure | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           |                         |                       | (5)                                     |
| a) Castin            | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi - (Pressure) 3600 psi al  | ාර<br>(Temperature)<br>it 100°F. | *F or Valve F                           | cturer                  |                       | (5)                                     |
| (b) Forgin           | king Pressure<br>Retaining Piec<br>Mark No.     | 2580 psi   | ාර<br>(Temperature)<br>it 100°F. | Manu'ad                                 | Forge                   |                       | (5)                                     |
| (b) Forgin           | king Pressure Retaining Piece Mark No.  gs  ngs | 2580 psi - (Pressure) 3600 psi alices Material SA182, F316   | ාර<br>(Temperature)<br>it 100°F. | Manu'ad                                 | Forge<br>Forge<br>Forge |                       | (5)                                     |

<sup>(1)</sup> For manually operated valves only.

<sup>\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

| Merk No.   | Material Spec. No.   | Manufacturer   | Remarks  |
|--|--|--|--|
| (c) Bolting  |  |  |  |
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| To be the supplied of the sale |  |  |  |
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| (d) Other Parts  |  |  | of the country of the Assessment of the Assessme |
| DISC-ACN   | SA479, TYPE 316  | Universal-Cyclops  |  |
| BONNET-FAL<br>BONNET-DAS   | SA479, TYPE 316  | Joslyn Steels  |  |
| SUNNET-UAS   | SA479, TYPE 316  | Carpenter  |  |
| Control of the second s |  |  |  |
|  |  |  | The state of the s |
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|  |  |  |  |
|  |  |  |  |
| drostatic test _5400 -   | pei. Disk Differential test pressure_  | 3600 psi   | ***  |
| ende Winter 1971<br>(Date)<br>Med Kerotest Manu<br>(N Centificate  | Code Case No. 1  | by for Vita  | 1971   |
| ende Winter 1971<br>(Date)<br>Med Kerotest Manu<br>(N Centificate  | Code Case No. 1  | mponents: Section III, Div. I., Editio   | 1971   |
| ende Winter 1971<br>(Date)<br>Med Kerotest Manu<br>(N Centificate  | Code Case No. Natifacturing Corp.  Molder: thorization No. 1902 to   | by Or Victory  N  N  N  N  N  N  N  N  N  N  N  N  N   | 1971<br>17, 1983.  |
| ende Winter 1971 (Date) Med Kerotest Manu (N Certificate of Au   | CERTIFICATION  | by Cor Vice by North North Symbol en   | 1971<br>17, 1983.  |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Certificate ASME Certificate of Au  ign information on file a  | CERTIFICATION of Kerotest Manufacturing  | by Corp., Pittsburgh, PA   | 1971<br>17, 1983.  |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Certificate ASME Certificate of Au  ign information on file a  | CERTIFICATION  | by Corp., Pittsburgh, PA   | 1971<br>17, 1983.  |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Centificate ASME Certificate of Au  ign information on file a as analysis report (Class  | CERTIFICATION  Kerotest Manufacturing  Kerotest Manufacturing  Kerotest Manufacturing  Kerotest Manufacturing  | by Corp., Pittsburgh, PA   | 1971<br>17, 1983.  |
| ign information on file assertifications certifications certificat | CERTIFICATION  Kerotest Manufacturing  CERTIFICATION  Kerotest Manufacturing  Tonly) on file at Kerotest Manufacturing  Red by (1) Robert E. Miller  | by Corp., Pittsburgh, PA   | 1971<br>17, 1983.  |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Certificate ASME Certificate of Au  ign information on file a se analysis report (Class gn specifications certifitate North Caroli   | CERTIFICATION (  E. Kerotest Manufacturing to not) an file at Kerotest Manufacturing to not) and not   | by Corp., Pittsburgh, PA   | 1971<br>17, 1983   |
| ends Winter 1971 (Date)  AND Kerotest Manual (M Certificate ASME Certificate of Australia (M Certificate North Carolia (M Certificate North Carolia (M Certificate M Certificate of M C | CERTIFICATION (  To the Control of t | by Corp., Pittsburgh, PA   | 1971<br>17, 1983   |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Certificate ASME Certificate of Au  ign information on file a se analysis report (Class gn specifications certificate North Caroli te analysis certified by taste Pennsylvania   | CERTIFICATION (  To the Company of the Company of the Company of the Company of the Certification No. 1902 to the Certificatio | by Corp., Pittsburgh, PA   | 1971<br>17, 1983   |
| enda Winter 1971 (Date)  AND ME Certificate of Automation on file assembly as analysis report (Classes analysis certified by taste Pennsylvania  | CERTIFICATION (  To the Company of the Company of the Company of the Company of the Certification No. 1902 to the Certificatio | by Corp., Pittsburgh, PA   | 1971<br>17, 1983   |
| enda Winter 1971 (Date)  AND ME Certificate of Automation on file assembly as analysis report (Classes analysis certified by taste Pennsylvania  | CERTIFICATION (  To the Company of the Company of the Company of the Company of the Certification No. 1902 to the Certificatio | by Corp., Pittsburgh, PA   | 1971<br>17, 1983   |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Certificate ASME Certificate of Au  ign information on file a se analysis report (Class gn specifications certificate North Caroli te analysis certified by taste Pennsylvania   | CERTIFICATION  To thorization No. 1902  To only) on file at Kerotest Manufacturing   | Dete February  Dete February  N  Use the N  (N)  OF DESIGN  Corp., Pittsburgh, PA  sufacturing Corp.   | 1971<br>17, 1983   |
| enda Winter 1971 (Date)  AND Kerotest Manual (N Certificate ASME Certificate of Australia (N Certificate of Australia (N Certificate of Australia (N Certificate of Australia (N Certificate N Certificate N Certificate N Certificate (N Certificate N Certificate N Certificate (N Certificate N Certificate (N Certificate N Certificate (N Certificate N Certificate (N Ce | CERTIFICATION  CERTIFICATION  Moder:  thorization No. 1902  CERTIFICATION  Kerotest Manufacturing  Tonly on file at Kerotest Manufacturing  All Dareg. No. 4960  The Reg. No. 4960  The Reg. No. 17144-E  List name only.  CERTIFICATE OF SHO  | OF DESIGN CORP., Pittsburgh, PA Sufacturing Corp.  | 1971<br>17, 1983 .<br>xpiree 4-25-83<br>(Deta)   |
| enda Winter 1971 (Date)  Med Kerotest Manu (N Certificate ASME Certificate of Au  ign information on file a se analysis report (Class (tete North Caroli tete Pennsylvania ignature not required. (I   | CERTIFICATION  To thorization No. 1902  CERTIFICATION  RE Kerotest Manufacturing  To only) on file at Kerotest | De INSPECTION  National Board of Boiler and Pressu   | Apiree 4-25-83 (Detei)   |
| enda Winter 1971  (Date)  Med Kerotest Manu  (N Certificate ASME Certificate of Au  ign information on file is as analysis report (Class  gn specifications certificate North Caroli as analysis certified by taste Pennsylvania ignature not required. (In a second control of the  | CERTIFICATION  To the control of the | De INSPECTION  National Board of Boiler and Pressured in the pressure of the p | Tr, 1983.  Apriree 4-25-83  (Deta)   |
| enda Winter 1971  (Date)  Red Kerotest Manu  (N Certificate ASME Certificate of Au  ign information on file is as analysis report (Class  gn specifications certificate North Caroli as analysis certified by taste Pennsylvania ignature not required. (In the State or Province of Hantford Conn   | CERTIFICATION  To thorization No. 1902  To thorizat | De INSPECTION  National Board of Boiler and Pressuand and employed by HSB I&I  | re Vessel Inspector  |
| enda Winter 1971  (Date)  AND Kerotest Manual (N Certificate ASME Certificate of Automation on file as analysis report (Classiste North Carolicate North Carolicate Pennsylvania analysis certified by attack Pennsylvania analysis certified by | CERTIFICATION  CERTIFICATION  RE Kerotest Manufacturing  To only) on file at Kerotest Manufacturing  To only)  | De INSPECTION  National Board of Boiler and Pressuand employed by HSB I&I of my  | re Vessel Inspector  |
| gn information on file as analysis certified by tase Pennsylvania ignature not required. If the State or Province of Hartford, Connacted this pump, or valve ted this pump, or valve   | CERTIFICATE OF SHO  a valid commission issued by the Pennsylvania  ecticut have inspected to in accordance with the ASME Code,   | Description III. Div. I., Edition III. Dete February  Description III. Dete February  Description III. Dete February  Notional Board of Boiler and Pressure and employed by HSB I&I  Description III. Dete February  National Board of Boiler and Pressure and employed by HSB I&I  Description III. Dete February  National Board of Boiler and Pressure and employed by HSB I&I  Description III. Dete February  National Board of Boiler and Pressure and employed by HSB I&I  Description III. Dete February  National Board of Boiler and Pressure and employed by HSB I&I  Description III. Dete February  National Board of Boiler and Pressure and employed by HSB I&I  Description III. Description III.  | re Vessel Inspecto Company this Deta Report of ificate Holder has co   |
| gn information on file as analysis certificate North Carolitate Pennsylvania ignature not required. If the State or Province of Hartford, Connected this pump, or valve gning this certificate, north certificate is analysis certified by the Pennsylvania ignature not required.   | CERTIFICATION  Steve Caroleo  Reg No. 17144-E  List name only.  CERTIFICATE OF SHO  a valid commission issued by the Pennsylvania  ecticut have inspected the inspected to in accordance with the ASME Code, weither the Inspector nor his amplication.  | Description III. Div. I., Edition III. Description III. D | re Vessel Inspecto Company this Data Report of ifficate Holder has co  |
| ign information on file is analysis certified by itsee Pennsylvania ignature not required. If and in control is the State of Province of Hartford Control is the State of Province of Hartford Control is the pump, or valve igning this certificate, in iquipment described in inquipment described in  | CERTIFICATION  CERTIFICATION  RECEIVED AND LESS MANUFACTURING  RECEIVE AND LESS MANUFACTURING  RECEIV | De INSPECTION  National Board of Boiler and Pressuand employed by HSB 1&1 of my knowledge and belief, the N Certi. Section III.  | re Vessel Inspector Company this Deta Report of incate Holder has continued, concerning  |
| ign information on file is analysis certified by itsee Pennsylvania ignature not required. If and in control is the State of Province of Hartford Control is the State of Province of Hartford Control is the pump, or valve igning this certificate, in iquipment described in inquipment described in  | CERTIFICATION  CERTIFICATION  RECEIVED AND LESS MANUFACTURING  RECEIVE AND LESS MANUFACTURING  RECEIV | De INSPECTION  National Board of Boiler and Pressuand employed by HSB 1&1 of my knowledge and belief, the N Certi. Section III.  | re Vessel Inspector Company this Deta Report of incate Holder has continued, concerning  |
| ends Winter 1971  (Date)  AND REPORT MANUAL (N Certificate ASME Certificate of Autoriticate of Autoriticate of Autoriticate of Autoriticate North Carolites analysis report (Class analysis certified by the Pennsylvania dignature not required. If a undersigned, holding the State or Province of Hartford, Connact of Conna | CERTIFICATION  Steve Caroleo  Reg No. 17144-E  List name only.  CERTIFICATE OF SHO  a valid commission issued by the Pennsylvania  ecticut have inspected the inspected to in accordance with the ASME Code, weither the Inspector nor his amplication.  | De INSPECTION  National Board of Boiler and Pressuand employed by HSB 1&1 of my knowledge and belief, the N Certi. Section III.  | re Vessel Inspector Company this Deta Report of incate Holder has continued, concerning  |
| dends Winter 1971  (Date)  ned Kerotest Manual (N Certificate of Autoriticate North Carolicate No | CERTIFICATION  CERTIFICATION  RECEPTIFICATION  RECEPTIFIC | De INSPECTION  National Board of Boiler and Pressure and employed by HSB I&I of my knowledge and belief, the N Certic Section III.  It makes any werranty, expressed or the Inspector nor his employer is any kind arising from or connected were the Inspector of connected were the Inspector or connected were the Inspecto | tre Vessel Inspector Company this Deta Report of implied, concerning the liable in an with this inspection.  |

#### SUPPLEMENT SHEET

#### FORM NPV-1

### (FOR NATIONAL BOARD NUMBERS ONLY)

| 1. MANUFACTURED BY: Kerotest Manufa | cturing Corp., Pittsburgh, PA | 15222 | NU-89618 | Item | 1 |
|-------------------------------------|-------------------------------|-------|----------|------|---|
|-------------------------------------|-------------------------------|-------|----------|------|---|

2. MANUFACTURED FOR: Duke Power Company P.O. Box 32307 Charlotte, North Carolina 28232

3. LOCATION OF INSTALLATION: McGuire Nuclear Station, Hwy. 73, Cowans Ford, N.C. 28216

4. TYPE OF EQUIPMENT: Y-GLOBE DRAWING NUMBER: DP-D-9957P-(1)

| IFACTURER'S<br>ERIAL NO. | NATIONAL<br>BOARD NO.  | MANUFACTURER'S<br>SERIAL NO.   | NATIONAL<br>BOARD NO  |
|--------------------------|--|--|---|
| DAP14-13                 | 35208  | 13.  | PROPERTY & STATES OF SALE WITH A STATE OF THE PROPERTY OF SALES   |
| DAP14-14                 | 35209  |  |   |
| DAP14-16                 | 35210  |  |   |
| ACB4-15                  | 35211  |  |   |
| ACB4-16                  | 35212  |  |   |
| ACB4-17                  | 35213  |  |   |
| ACB4-19                  | 35214  |  |   |
| ACB4-20                  | 35215  |  |   |
| ACB4-21                  | 35216  |  |   |
| ACB4-22                  | 35217  |  |   |
| RUK alo                  | 183  |  |   |
|                          |  |  |   |
|                          |  |  |   |
|                          |  | 25.  |   |
|                          | DAP14-13 DAP14-14 DAP14-16 ACB4-15 ACB4-16 ACB4-17 ACB4-19 ACB4-20 ACB4-21 ACB4-22 | DAP14-13 35208  DAP14-14 35209  DAP14-16 35210  ACB4-15 35211  ACB4-16 35212  ACB4-17 35213  ACB4-19 35214  ACB4-20 35215  ACB4-21 35216 | ERTAL NO.       BOARD NO.       SERTAL NO.         DAP14-13       35208       15.         DAP14-14       35209       14.         DAP14-16       35210       15.         ACB4-15       35211       16.         ACB4-16       35212       17.         ACB4-17       35213       18.         ACB4-19       35214       19.         ACB4-20       35215       20.         ACB4-21       35216       21.         ACB4-22       35217       22.         PNK 2/17/83       23. |

5. SERVICE: Borated Water

SIGNED: KEROTEST MANUFACTURING CORP. BY:

AUTHORIZED NUCLEAR INSPECTOR BY:

DATE FEB 1 7 1933

DATE: 2/12/83

# DUKE POWER COMPANY QUALITY ASSURANCE DEPARTMENT SUPPLIER QUALITY ASSURANCE CERTIFICATION

| Name of Supplier Kerotest Manu   | facturing Corp.   | Date February 17, 1983  |
|--|---|---|
| Address of Supplier Plant 2525 L   | iberty Avenue   | Mill Power Order No. H23944-73  |
|  | urgh, PA 15222  | Duke I tem or Req. No. 9J-015 Jan   |
| Supplier IO Nos. DAP14-18, 14,   | 16, ACB4-15, 16, 1  | spec. No. MCS-1205.01-1 Nev. 10   |
| Description of Component(s) or Mate  | rial(s) 1-1/2" 1500#  | S.S. PACKLESS Y-GLOBE VALVE WITH LOCKING  |
| DEVICE & SOCKET WELD EN  | DS  |   |
|  |   |   |
| Attached Documentation covers  Attached Documentation covers  The following listed tests, inspect specification: | partial shipment of Co  | omponents/Materials on Mill Power Order.  |
|  |   |   |
| X Physical & Chemical Analysis X Hydro (Test Pressure - PSIG   |   | Major Repair Records & Charts Personnel Qualifications on Record                        |
| X Design Report N/A Radiographic Test N/A Penetrant Test N/A Operating Test X Dimensional Check                  | N/A Stress Report N/A Ultrasonic Tes N/A Repair NDE N/A Performance Cu N/A Deviation Reco | N/A Magnetic Particle X Cleanliness X ASME Data Report                                  |
| 1)   |   |   |
| 2)   |   |   |
| 3)   |   |   |
| This certifies that the listed Comp  | luding all codes, stand   | conform to the requirements of the above dards, test requirements and Quality Assurance |
| DATE 3-8-83  | Title   | Quality Assurance Mgr. Date   |

(See Instructions)

Form 930.1A / Rev. 3

| FORM NIS-2 OWNER'S | ORT FOR REPAIRS OR REPLACEMENTS            |
|--------------------|--|
| As Required By     | The Provisions Of The ASME Code Section XI |

| 1.  | Owner Address:        | Duke Power Company   |         |                  |     |                  | 1a. Date <u>March 30, 1998</u> |
|-----|-----------------------|--|---------|------------------|-----|------------------|--------------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006   |         |                  |     |                  | Sheet 1 of 1                   |
| 2.  | Plant Address:        | McGuire Nuclear Station  |         |                  |     |                  |                                |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078  |         |                  |     |                  |                                |
| 2a. | Unit: ☑1 □2           | □3 □Shared (specify Units)   |         |                  |     |                  |                                |
| 3.  | Work Performed By     | The state of the s |         |                  | 3a. | Work Order # : _ | 97029462                       |
|     | Address:              | 526 S. Church Street, Charlotte NC 28201-1006  |         |                  |     |                  | Repair Organization Job #      |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A  |         |                  | 3b. | NSM or MM #:_    | N/A                            |
| 4.  | (a) Identification of | System: VI - Instrument Air  | _ 4. (b | Class of System: | В   |                  |                                |
| 5.  |                       | struction Code: <u>ASME III</u> 19 <u>71</u> Edition, <u>Summer and Winter Action</u> of Section XI Utilized for Repairs or Replacements: <u>1989</u> ,  |         | N/A              |     |                  | Code Cases                     |
|     |                       |  |         |                  |     |                  |                                |

6. Identification of Components Repaired or Replace and Replacement Components:

|   | Column 1          | Column 2    | Column 3       | Column 4           | Column 5             | Col 6      | Column 7                              | Column 8                         |
|---|-------------------|-------------|----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg | Mfg Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code Stamped<br>(yes or no) |
| A | 1-VI-VA-149       | ADF7-11     | Kerotest       | 6570               | N/A                  | 1975       | ☐ Repaired,<br>☐ Replaced,            | □No                              |
|   |                   |             |                |                    |                      |            | ☑ Replacement                         | ⊠Yes                             |
| В |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |             |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| C |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □No                              |
|   |                   |             |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| D |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |             |                |                    |                      |            | ☐ Replacement                         | □ Yes                            |
| E |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |             |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |
| F |                   |             |                |                    |                      |            | ☐ Repaired,<br>☐ Replaced,            | □ No                             |
|   |                   |             |                |                    |                      |            | ☐ Replacement                         | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, cketched awings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items1 to on this 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.

| 7. | Description of Work Replaced disc  |
|----|--|
| 8. | Test Conducted:Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☑ Other ☐ Exempt☐   |
|    | Pressurepsig Test Temp°F   |
|    | Pressure psig Test Temp°F  |
|    | Pressurepsig Test Temp°F   |
| 9. | Remarks  |
|    |  |
|    |  |
|    | (Applicable Manufacturer's Data Records to be attached)  |
|    | CENTIFICATE OF COMPLIANCE  |
|    | We certify that the statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI.                             |
|    | Type Code Symbol Stamp N/A   |
|    | Certificate of Authorization No. N/A Expiration Date N/A   |
|    | Signed Africa FL Grass Jr., QA Tech Specialist Date 3/30/, 19 98 Owner or Owner's Designee, Title  |
|    |  |
|    | I, the undersigned, holding a valid commission issued by the National Board of Boiler and  |
|    | Pressure Vessel Inspectors and the State or Province of North Carolina and employed by HSBI  |
|    | and I Company of Hartford Connecticut have inspected the components described in this  |
|    | Owner's Report during the period 44647 to 3-30-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures |
|    | described in this Owner's Report in accordance with the requirements of 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 the Owner's  |

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

National Board, State, Province and Endorsements

Commissions NB7728, NC853, N-I

| 1. | Owner Address:        | Duke Power Company   | 1a. Da           | ate 06/23/98             |
|----|-----------------------|--|------------------|--------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | eet 1 of 1               |
| 2. | Plant Address:        | McGuire Nuclear Station  |                  |                          |
|    |                       | 1270° Hagers Ferry Road, Huntersville, NC 28078                            |                  |                          |
| 2a | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)   |                  |                          |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 97088143                 |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job# |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM #  | MGMM-8400                |
| 4. | (a) Identification of | f System: Reactor Coolant System (NC System) 4. (b) Class of System:       | Class A          |                          |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A      | Code Cases       |                          |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                  |                          |
| 6. | Identification of Co  | emponents Repaired or Replaced and Replacement Components:                 |                  |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                                    | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement       | ASME Code<br>Stamped (yes or no) |
| A | 1-MCR-NC-572      | N/A          | N/A             | N/A                | N/A                  | N/A        | ☐ Repaired, ☐ Replaced, ☑ Replacement       | ⊠ No  ☐ Yes                      |
| В | 1-MCR-NC-578      | N/A          | N/A             | N/A                | N/A                  | N/A        | ☐ Repaired,<br>☐ Replaced,<br>☑ Replacement | ⊠ No<br>□ Yes                    |
| c |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| E |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement       | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,                  | □ No                             |
| 1 |                   |              |                 |                    |                      |            | Replacement                                 | ☐ Yes                            |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. | Description of work :  | !MCR-NC                                       | C-572 (replaced  | item #7  | ')   |  |   |
|----|--|---|--|--|--|--|---|
|    |  | IMCR-NC                                       | C-578 (replaced  | item #1  | )  |  |   |
| 8. | Test Conducted: Hydr   | ostatic 🗆                                     | Pneumatic  | Nom.   | Operating Press.   | Other 🗆  | Exempt 🖾  |
|    | Pre  | ssure   | psig   | ,  | Test Temp  | °F   |   |
|    | Pre  | ssure   | psig   |  | Test Temp  |  |   |
|    | Pre  | ssure   | psig   | ;  | Test Temp  | °F   |   |
| 9. | Remarks :  |   |  |  |  |  |   |
|    |  |   |  |  |  | -  |   |
|    |  | (Applicable                                   | Manufacturer's D   | ata Recor  | ds to be attached)   |  |   |
|    | We certify that he statem the rules of the ASME Control of the ASME Control of Authorization of Authorizatio | ode, Section  p <u>N/A</u> ion No. <u>N/A</u> | XI.  |  | Expira   | ition Date N/  |   |
|    | CI   | ERTIFICA                                      | TE OF INSE   | PVIC   | E INSPECTIO  | N  |   |
|    | I, the undersigned, holding Vessel Inspectors and the of Hartford Connecticut period 5 '9 b to Owner has performed exaccordance with the requirement of By signing this certificate implied, concerning the Furthermore, neither the or property damage or a linear property damage or a l | aminations a reither the examinations.        | emmission issue ovidence of Normal de the compone in and state to the correct ASME Code, Some corrective or his employer in and corrective or his employer in a sand corrective or his employer in a | the description of the control of th | e National Board of<br>blina and employed<br>cribed in this Own<br>he best of my know<br>asures described in<br>Cl.  "er makes any was described in the<br>liable in any man | of Boiler and of by HSBI and of by HSBI and of the ser's Report develope and be not this Owner's arranty, express Owner's Rener for any penspection. | d I Company uring the elief, the 's Report in essed or port. e sonal injury |

| 1.  | Owner Address:        | Duke Power Company   | la. Da           | nte 06/18/98              |
|-----|-----------------------|--|------------------|---------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | et 1 of 1                 |
| 2.  | Plant Address:        | Mcguire Nuclear Station  |                  |                           |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                  |                           |
| 2a. | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)   |                  |                           |
| 3.  | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 97088143                  |
|     | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job # |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM #  | MM-8400                   |
| 4.  | (a) Identification of | f System: NC 4. (b) Class of System:                                       | Α                |                           |
| 5.  | (a) Applicable Cor    | estruction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A     | Code Cases       |                           |
|     | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1029, No Addenda |                  |                           |
| 6.  | Identification of Co  | imponents Repaired or Replaced and Replacement Components:                 |                  |                           |

|   | Column 1          | Column 2            | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|---------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.        | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | Valve 1NC-5       | Kerotest            | ASZ1-10         | 38431              | 9J-16                | 1990       | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No ☑ Yes                       |
| В | Valve INC-5       | Anderson, Greenwood | 97-38489        | 2614               | 9J-618               | 1998       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ☑ Yes                       |
| С |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| E |                   |                     |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |
| F |                   |                     |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| Description of wo   | ork: Replaced   | I Valve at weld !   | NC1FW   | 3-1  |   |   |   |
|---|---|---|---|--|---|---|---|
| Test Conducted:   | Hydrostatic ⊠   | Pneumatic [   | Nom.  | Operating Press  |   | Other 🗆   | Exempt  |
|   |   | 2480  |   | T T  | 77 1  | or  |   |
|   | Pressure  | 2480 psi  |   | Test Temp  | 77.1  | °F  |   |
|   | Pressure  | psi   |   | Test Temp  |   | - °F  |   |
|   | Pressure  | psi   | g   | Test Temp _  |   |   |   |
| Remarks:  |   |   |   |  |   |   |   |
|   | (Applica  | ble Manufacturer's I  | Data Reco   | ords to be attached)   |   |   |   |
| Type Code Symbol Certificate of Authorities F.R. Signed   | ol Stamp <u>N/A</u> horization No. <u>N</u> Sorrow Exec. Su   | VA  | LOTE .  | Exp  |   | n Date N/   | <u>A</u><br>19 <u>98</u>  |
| I, the undersigned Vessel Inspectors of Hartford Conneperiod 3-19-92 Owner has perfor accordance with the By signing this ceimplied, concernifurthermore, neithor property dama | h, holding a valid and the State or ecticut have insponent to Gay med examination the requirements entificate neither the Inspector | Providence of Nected the compored ; and state is and taken corrections and corrections and correction nor his employe | ned by the orth Care that to ective masser shall be | ne National Boar<br>rolina and emplo<br>scribed in this O<br>the best of my k<br>leasures describe<br>XI.<br>Ployer makes any<br>ures described in<br>be liable in any m | ord of B<br>byed by<br>bwner's<br>nowled<br>ord in the<br>warranthe Omanner | y HSBI and see Report didge and be and be and see and | d I Company<br>uring the<br>elief, the<br>is Report in<br>essed or<br>port. |
| R. D. Klein Sinspecto   | & Deir  |   | issions   | NB7728, NC<br>National Board, S  | 853, N  | -I  | i Endorsements  |

PAGE 3

## FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

\$/0 \$463890000.001

P.O. MN27923

Pg. 1 of \_2\_

| •     | 1. Manufactured and o   | certified by ANDEL   | RSON, GREENWOO   | DD & CO.                                | . 3950 Greenbr   | iar, Stafford, TX 7  |
|-------|---|--|--|---|--|--|
|       | 2. Manufactured for _   | DUKE POWER (   |  |   |  |  |
|       |   | W-C C-   |  |   | s of Purchaser)  |  |
|       | 3. Location of installat  | ion McGuire St   | ation, 13225   |   |  | 73, Huntersville,  |
| -     |   | Y12B18   | 3S-8S8S-N1   |   | nd address)  | 28078  |
|       | 4. Model No., Series N  | lo., or Type   | Drawing  |   | 00.560 RevC_   | CRN_NA   |
|       |   |  |  |   | 6400.562   |  |
|       | 5. ASME Code, Section   | on III, Division 1: _  | 1980<br>(edition)  | S-8                                     | THE RESIDENCE AND SHOW THE PERSON OF T   | NA NA  |
|       |   | In 1   |  | (addenda d                              |  | (Code.Case no.)  |
|       | 6. Pump or valve  | AlveN  | lominal inlet size   | (in.)                                   | Outlet size  | (in.)  |
|       | 7. Material: Body SA  | 182-F316   | Sonnet _SA479-31   |   | SA217-CA15/HF  |  |
|       | The territory and   | Andrew Bulkelinkerson  | Joinnet  | Disk                                    | unit I man I m   | boiting <u>NA</u>  |
|       | (a)   | (b)  | (c   | )                                       | (d)  | • (e)  |
|       | Cert.   | Nat'l  | Bo   | dy                                      | Bonnet   | Disk   |
|       | Holder's  | Board  | Ser  | ial                                     | Serial   | Serial   |
|       | Serial No.  | No.  | No   |   | No.  | No.  |
| 10.57 | 97-38489  | 2614   | B243-1   | 3                                       | B254-4   | B258-19  |
|       | 97-38490  | 2615   | B255-6   |   | B254-2   | B258-23  |
|       | 97-38491  | 2616   | B243-1   |   | B254-3   | B258-20  |
|       | 97-38492  | 2617   | B244-2   |   | B254-1   | B258-5   |
|       | 97-38493  | 2618   | B255-8   |   | B254-5   | B258-7   |
| -     |   |  |  |   | **************************************   |  |
|       | -   | *****  |  |   | ******   |  |
|       | -   |  |  |   | ****   | ***  |
|       |   |  |  |   | -  | THE RESIDENCE OF PERSONS ASSESSED AND ADDRESS ASSESSED.  |
|       |   |  |  | -                                       |  |  |
|       | -   |  | -  |   | ***************************************  |  |
|       |   |  |  | -                                       |  | THE RESIDENCE OF THE PARTY OF T |
|       |   | STATES - BOUNT OF THE SAME AND ADDRESS OF THE SAME AND |  |   | -  |  |
|       |   | ***************************************  |  |   | ***************************************  | ASSESSMENT OF THE THE TAX ADDRESS OF THE PARTY OF THE PAR |
|       | AND TOTAL SUCKES CONTRACTOR AND CONTRACT STATES, STREET AND ASSOCIATED AND CONTRACTOR ASSOCIATION ASS   |  | TANALOG STATES   | *************************************** | ***************************************  | and and the second seco |
|       | STORY STATE STATE OF THE STATE | ***************************************  | management with a  |   |  |  |
|       |   | ****************************   |  |   | PRODUCTION CONTRACTOR AND SECURITION OF SECU | Marie Control of the September of the Se |
|       |   |  | AND DESCRIPTION OF THE PARTY OF |   | Access of the same and the same | MATERIAL PROPERTY OF THE PARTY  |
|       |   |  |  |   |  |  |
|       |   |  |  |   |  |  |
|       |   |  |  |   |  |  |
|       |   |  |  |   |  |  |
|       |   |  |  |   |  |  |
|       | * .   |  | A  |   |  |  |
|       |   |  |  |   |  |  |

Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NPV-1 (Back - Pg. 2 of 2\_\_)

97-38489 thru

Certificate Holder's Serial No. 97-38493

|     |  | 2675              | psi650                     | °F or v         | alve pressure of | ciass180            | 0           |
|-----|--|-------------------|----------------------------|-----------------|------------------|---------------------|-------------|
| 8.  | Design conditions                                      | (pressure)        | (temperature               |                 |                  |                     |             |
| 9   | Cold working pressure .                                | 4320              | psi at 100°F               |                 |                  |                     |             |
|     |  |                   |                            |                 | 1755             |                     |             |
| 10. | Hydrostatic test650                                    | 00% psi.          | Disk differential test pr  | essure          | 4755             |                     | psi         |
| 11. | Remarks:   |                   |                            |                 |                  |                     |             |
|     |  |                   |                            |                 |                  |                     |             |
|     |  |                   |                            |                 |                  | *                   |             |
|     |  |                   |                            |                 |                  |                     |             |
|     |  |                   |                            |                 |                  |                     | 1           |
|     |  |                   | CERTIFICATION OF           |                 |                  |                     |             |
| -   | alaa Canaifiaatian aastifi                             | D. G.             | Garner<br>West             | P.E. State      | SC               | Reg. no. 82         | 34          |
| De  | sign Specification certified by                        | J. Alan V         | West                       | P.E. State      | TX               | _ Reg. no. 41       | 731         |
|     | sign rioport contined by .                             |                   |                            |                 | ****             |                     |             |
|     |  |                   |                            |                 |                  |                     |             |
|     |  |                   |                            |                 |                  |                     |             |
|     |  |                   | CERTIFICATE OF CO          | MPLIANCE        |                  |                     |             |
|     |  |                   |                            |                 | value conference | to the rules for o  | onstruction |
|     |  |                   | report are correct and tha | t this pump or  | valve comonns    | to the rules for c  | onsucction  |
|     | the ASME Code, Section<br>Certificate of Authorization |                   | N-2823                     |                 | Expires          | 9/10/99             |             |
| N   | Lertificate of Authorization                           | on No             | , Greenwood & Co           |                 |                  | 10                  |             |
| Da  | 10 4/24/98 NAM   | Anderson          | , Greenwood & Co           | Signed          | Joseph           | a larke             |             |
| Ue  | 10 -44 -14 -14 all                                     | (N                | Certificate Holder)        |                 | / (authori       | ed representative)  |             |
| -   |  |                   |                            |                 |                  |                     |             |
|     |  |                   |                            |                 |                  |                     |             |
|     |  |                   | CERTIFICATE OF INS         | PECTION         |                  |                     |             |
|     |  |                   | CENTIFICATE OF III         | , LOTION        |                  |                     |             |
| 1.1 | the undersigned, holding                               | a valid commis    | ssion issued by the Natio  | onal Board of I | Boiler and Pres  | sure Vessel Insp    | ectors and  |
|     | State or Province of                                   | TX                |                            | and employed    | by C.U.I         | .C.                 |             |
| of  | Boston, MA   |                   | have inspe                 | ected the pump  | , or valve, desc | cribed in this Date | a Report on |
| _   | 4.24.98  | , and st          | ate that to the best of n  |                 |                  |                     |             |
| str | ucted this pump, or valve                              |                   | with the ASME Code, Se     |                 |                  |                     |             |
|     |  |                   |                            |                 |                  |                     |             |
| By  | signing this certificate,                              | neither the inspe | ector nor his employer m   | akes any warra  | anty, expressed  | or implied, con-    | cerning the |
| co  | mponent described in this                              | S Det Report. F   | urthermore, neither the in | srector nor his | s employer shall | l be liable in any  | manner for  |
| an  | y personal injury or prope                             | rty damage pr a   | Jose of any kind arising f | ror or connect  | ed with this ins | spection.           |             |
|     | 118160 1   | Vh. H/            | / 4 /                      |                 |                  |                     | 011         |
| Da  | te 7 24.7 Signed                                       | MILLED            | Commission                 | ons 16 X        | 0001             | 187582              | // W        |

(1) For manually operated valves only.

| 1. | Owner Address:       | Duke Power Company   |            |                  |     | la. Da       | ite 6/12/98              |
|----|----------------------|--|------------|------------------|-----|--------------|--------------------------|
|    |                      | 526 S. Church Street, Charlotte, NC 28201-1006                 |            |                  |     | She          | et 1 of 1                |
| 2. | Plant Address:       | Mcguire Nuclear Station  |            |                  |     |              |                          |
|    |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                |            |                  |     |              |                          |
| 2a | Unit: 🛛 1 🔲 2        | 3 Shared (specify units)                                       |            |                  |     |              |                          |
| 3. | Work Performed B     | y: Duke Power Company  |            |                  | 3a. | Work Order # | 97097262-16              |
|    | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                 |            |                  |     |              | Repair Organization Job# |
|    | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A          |            |                  | 3b. | NSM or MM #  | N/A                      |
| 4. | (a) Identification o | f System: ND   | 4. (b) C   | Class of System: | В   |              |                          |
| 5. | (a) Applicable Con   | nstruction Code: ASME III 1971 Edition, Summer and Winter      | Addenda, N | N/A              |     | Code Cases   |                          |
|    | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989 | No Addenda |                  |     |              |                          |
| 6. | Identification of Co | omponents Repaired or Replaced and Replacement Components      | :          |                  |     |              |                          |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                               | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|--|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement  | ASME Code<br>Stamped (yes or no) |
| A | i-MCA-ND-H297     | DUKE POWER   | 19914           | N/A                | N/A                  | N/A        | ☐ Repaired,  ☑ Replaced, ☐ Replacement | ⊠ No □ Yes                       |
| В | 1-MCA-ND-H297     | DUKE POWER   | 15697           | N/A                | N/A                  | N/A        | ☐ Repaired, ☐ Replaced, ☒ Replacement  | ⊠ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement  | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement  | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement  | □ No                             |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement  | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provide  $\mathfrak{J}(1)$  size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. | Description of work : SNUBBER PM CHANGE OUT  |
|----|--|
| 8. | Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nom. Operating Press. ☐ Other ☐ Exempt ☒   |
|    | Pressure psig Test Temp °F   |
|    | Pressure psig Test Temp °F   |
|    | Pressure psig Test Temp °F   |
| 9. | Remarks :  |
|    |  |
|    |  |
|    | (Applicable Manufacturer's Data Records to be attached)  |
|    | the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed F.R. Sorrow Exec. Supp. January Date 6/12 19 98  Owner or Owner's Designee, Title   |
|    | CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period of the perio |
|    | 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.   |
|    | R. D. Klein Commissions NB7728, NC853, N-I   |
|    | Inspector's Signature National Board, State, Providence and Endossements  Date 6-13, 19-98   |

| 1. | Owner Address:        | Duke Power Company  |                         |     | la. Da       | nte 06/20/98              |
|----|-----------------------|---|-------------------------|-----|--------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                  |                         |     | She          | eet 1 of 1                |
| 2. | Plant Address:        | Mcguire Nuclear Station   |                         |     |              |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                 |                         |     |              |                           |
| 2a | . Unit: 🛛 1 🔲 2       | 3 Shared (specify units)  |                         |     |              |                           |
| 3. | Work Performed B      | y: Duke Power Company   |                         | 3a. | Work Order # | 93009714/01               |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                  |                         |     |              | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A           |                         | 3b. | NSM or MM #  | N/A                       |
| 4. | (a) Identification of | of System: RV   | 4. (b) Class of System: | В   |              |                           |
| 5. | (a) Applicable Cor    | nstruction Code: ASME III 1971 Edition, Summer and Winter       | Addenda, N/A            |     | Code Cases   |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989. | No Addenda              |     |              |                           |
| 6. | Identification of Co  | omnonents Renaired or Replaced and Replacement Components:      |                         |     |              |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                                    | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Replaced, or<br>Replacement                 | ASME Code<br>Stamped (yes or no) |
| A | PIPING SYSTEM     | DUKE POWER   | N/A             | 41                 | IRV                  | 1981       | ☐ Repaired, ☐ Replaced, ☑ Replacement       | □ No  ☑ Yes                      |
| В |                   |              |                 |                    |                      |            | ☐ Repaired,<br>☐ Replaced,                  | □ Ne                             |
| С |                   |              |                 |                    |                      |            | ☐ Replacement ☐ Repaired, ☐ Replaced,       | ☐ Yes                            |
| D |                   |              |                 |                    |                      |            | Replacement Repaired, Replaced, Replacement | ☐ Yes ☐ No ☐ Yes                 |
| E |                   |              |                 |                    |                      |            | Replacement  Replaced, Replaced,            | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement             | □ No                             |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2

|  | e number of sheets  | is recorded at the t  | op of this form.   |  | 3) each sheet  |
|--|---|---|--|--|--|
| 7. Description of  | work: Replaced  | d studs and nuts at   | valve IRV-32A  |  |  |
| Flange joint# 1RV3   | 1-FL3   |   |  |  |  |
| . Test Conducted   | : Hydrostatic 🗆   | Pneumatic 🗇   | Nom. Operating Press.  | Other 🗆  | Exempt ⊠   |
|  | Pressure  | psig  | Test Temp  | °F   |  |
|  | Pressure  | psig  | Test Temp  | °F   |  |
|  | Pressure  | psig  | Test Temp  | °F   |  |
| Remarks:   |   |   |  |  |  |
|  | RV31-F' .3 IS ON  | MCFI-1RV31 ISO  |  |  |  |
|  |   |   |  |  |  |
|  |   | AND THE RESIDENCE OF THE PARTY | And the second s |  | manufacture and the same   |
|  |   |   |  |  |  |
|  |   |   |  |  |  |
|  |   |   |  |  |  |
|  | (Applical   | ole Manufacturer's Data   | a Records to be attached)  |  |  |
|  |   |   | A STATE OF THE PROPERTY OF THE | und. According to the control of the | NATIONAL AND DESCRIPTION OF STREET   |
|  |   |   | COMPLIANCE   |  |  |
|  |   |   | orrect and this repair or rep  | placement co   | onforms to   |
| the rules of the A   | SME Code, Section   | n XI  |  |  |  |
|  |   | 711 784.  |  |  |  |
|  |   | Al Al.  |  |  |  |
| Type Code Symb   |   |   |  | D N/   |  |
|  | ool Stamp <u>N/A</u><br>thorization No. <u>N</u>  |   | Expiration   | on Date N/A  | Δ  |
| Certificate of Au  |   | <u> </u>  | Expiration Date  |  | <u>A</u><br>9 <u>98</u>  |
| Certificate of Au  | thorization No. No. No. Sorrow Exec. Sup  | <u> </u>  |  |  |  |
| Certificate of Au  | thorization No. No. No. Sorrow Exec. Sup  | A PLONG   |  |  |  |
| Certificate of Au  | thorization No. No. No. Sorrow Exec. Sup  | A PLONG   |  |  |  |
| Certificate of Au  | thorization No. No. No. Sorrow Exec. Sup  | A PLONG   |  |  |  |
| Certificate of Au  | thorization No.   | A PLOUS<br>pp. J. P. Jones<br>per's Designee, Title   | Date 10/20   |  |  |
| Certificate of Au Signed F.R.  | Sorrow Exec. Sup<br>Owner or Own  | A P. J. Jones Designee, Title   | DateDateDateDate   | 1  | 9 98   |
| Certificate of Au Signed F.R.  | CERTIFIC d, holding a valid of  | A P. J. Jones Designee, Title  ATE OF INSER COmmission issued   | Date Date Date Date Date Date Date Date  | Boiler and F   | 9 98   |
| Signed F.R.  I, the undersigned Vessel Inspectors  | CERTIFIC d, holding a valid as and the State or F   | ATE OF INSER  | RVICE INSPECTION by the National Board of in Carolina and employed by  | Boiler and F   | 9 98 Tressure  |
| I, the undersigner Vessel Inspectors of Hartford Conn  | CERTIFIC d, holding a valid as and the State or F   | ATE OF INSER- commission issued rovidence of North  | Date 00/20  RVICE INSPECTION by the National Board of in Carolina and employed by the described in this Owner  | Boiler and F<br>by HSBI and<br>'s Report du  | ressure<br>I I Company   |
| I, the undersigned Vessel Inspector of Hartford Comperiod 6-23-4   | CERTIFIC d, holding a valid of a and the State or Fecticut have inspected to GRAF   | ATE OF INSER  | Date 00/20  RVICE INSPECTION by the National Board of It carolina and employed by ts described in this Owner at to the best of my knowled  | Boiler and F<br>by HSBI and<br>'s Report duedge and be   | ressure<br>II Company<br>uring the<br>lief, the                                |
| I, the undersigned Vessel Inspector of Hartford Contraction G-23-4 Owner has period  | CERTIFIC d, holding a valid of a and the State or Freeticut have inspected by to 600 freed examinations   | ATE OF INSER- commission issued providence of North cted the component and taken corrections.   | Date 00/20  RVICE INSPECTION by the National Board of It carolina and employed by ts described in this Owner at to the best of my knowled we measures described in the   | Boiler and F<br>by HSBI and<br>'s Report duedge and be   | ressure<br>II Company<br>uring the<br>lief, the                                |
| I, the undersigned Vessel Inspectors of Hartford Comperiod 6-23-4 Owner has performed ordance with   | CERTIFIC d, holding a valid of a and the State or Freeticut have inspected to 604 formed examinations the requirements of the | ATE OF INSER- commission issued rovidence of North cted the component and taken correcti f ASME Code, Sec   | Date 00/20  RVICE INSPECTION by the National Board of It carolina and employed by ts described in this Owner at to the best of my knowled we measures described in the cition XI.  | Boiler and F<br>by HSBI and<br>'s Report du<br>edge and be<br>this Owner's   | Pressure II Company uring the lief, the s Report in                            |
| I, the undersigned Vessel Inspectors of Hartford Comperiod 6-23-4 Owner has performed ordance with By signing this contains the second of the second ordance with the second o | CERTIFIC d, holding a valid as and the State or F necticut have inspermed examinations the requirements of ertificate neither the   | ATE OF INSER- commission issued rovidence of North cted the component and taken correctif ASME Code, Section Inspector nor his  | Date 00/20  RVICE INSPECTION by the National Board of the Carolina and employed by the described in this Owner at to the best of my knowled to the b | Boiler and F<br>by HSBI and<br>'s Report duedge and be<br>this Owner's   | ressure II Company uring the lief, the s Report in                             |
| I, the undersigned Vessel Inspectors of Hartford Comperiod 6-23-9 Owner has perform the containing this compensation of the containing the co | CERTIFIC d, holding a valid as and the State or Freeticut have inspermed examinations the requirements of ertificate neither thing the examination  | ATE OF INSER<br>commission issued<br>rovidence of North<br>cted the componen<br>; and state that<br>and taken correctif<br>f ASME Code, Sector Inspector nor his<br>ins and corrective in   | Date 0/20  RVICE INSPECTION by the National Board of the Carolina and employed by the described in this Owner at to the best of my knowled to the be | Boiler and F<br>by HSBI and<br>'s Report due<br>edge and bei<br>this Owner's<br>ranty, expres  | ressure II Company uring the lief, the s Report in ssed or port.               |
| I, the undersigned Vessel Inspector of Hartford Conreperiod 6-23-4 Owner has performed ordance with By signing this compiled, concern Furthermore, neithermore, neithermore, neithermore, neithermore, neithermore, neithermore, and significant the significant that | CERTIFIC d, holding a valid as and the State or Freeticut have inspected to 604 formed examinations the requirements of ertificate neither the ing the examination ther the Inspector recommends the requirements of the examination there is a second to the examination that the examination there is a second to the examination that the examination there is a second to the examination that is | ATE OF INSER<br>commission issued<br>Providence of North<br>cted the componen<br>; and state that<br>and taken correctif<br>f ASME Code, Section of his<br>ins and corrective more his employer shapes  | Date 00/20  RVICE INSPECTION by the National Board of the Carolina and employed by the described in this Owner at to the best of my knowled to the b | Boiler and F<br>by HSBI and<br>'s Report due<br>edge and bei<br>this Owner's<br>ranty, expres  | ressure II Company uring the lief, the s Report in ssed or oort.               |
| I, the undersigned Vessel Inspectors of Hartford Control Good Period Good Period Good Period Good Period Good Period Peri | CERTIFIC d, holding a valid as and the State or Freeticut have inspected to 604 formed examinations the requirements of ertificate neither the ing the examination ther the Inspector recommends the requirements of the examination there is a second to the examination that the examination there is a second to the examination that the examination there is a second to the examination that is | ATE OF INSER<br>commission issued<br>Providence of North<br>cted the componen<br>; and state that<br>and taken correctif<br>f ASME Code, Section of his<br>ins and corrective more his employer shapes  | Date 20/20  RVICE INSPECTION by the National Board of It is described in this Owner at to the best of my knowle we measures described in the totion XI. employer makes any warm neasures described in the Chall be liable in any manne   | Boiler and F<br>by HSBI and<br>'s Report due<br>edge and bei<br>this Owner's<br>ranty, expres  | ressure II Company uring the lief, the s Report in ssed or port.               |
| I, the undersigned Vessel Inspectors of Hartford Consperiod 6-23-4 Owner has performed ordance with By signing this compiled, concern Furthermore, neitor property damage.   | CERTIFIC d, holding a valid as and the State or Freeticut have inspected to 604 formed examinations the requirements of ertificate neither the ing the examination ther the Inspector recommends the requirements of the examination there is a second to the examination that the examination there is a second to the examination that the examination there is a second to the examination that is | ATE OF INSER- commission issued rovidence of North cted the component and taken correcti f ASME Code, Sec the Inspector nor his ms and corrective m or his employer sh kind arising from  | Date 0/20  RVICE INSPECTION by the National Board of the Carolina and employed by the described in this Owner at to the best of my knowled to the be | Boiler and F<br>by HSBI and<br>'s Report due<br>dge and be<br>his Owner's<br>ranty, expres<br>Owner's Rep<br>r for any per<br>section.   | ressure II Company uring the lief, the s Report in ssed or port.               |
| I, the undersigned Vessel Inspectors of Hartford Control of Hartfo | CERTIFIC d, holding a valid as and the State or Freeticut have inspected to 604 formed examinations the requirements of ertificate neither the ing the examination ther the Inspector recommends the requirements of the examination there is a second to the examination that the examination there is a second to the examination that the examination there is a second to the examination that is | ATE OF INSER<br>commission issued<br>Providence of North<br>cted the componen<br>; and state that<br>and taken correctif<br>f ASME Code, Section of his<br>ins and corrective more his employer shapes  | Date 0/20  RVICE INSPECTION by the National Board of the Carolina and employed by the described in this Owner at to the best of my knowled to the be | Boiler and F<br>by HSBI and<br>'s Report due<br>dge and be<br>his Owner's<br>ranty, expres<br>Owner's Rep<br>r for any per<br>section.   | ressure II Company uring the lief, the s Report in ssed or port.               |
| I, the undersigned Vessel Inspectors of Hartford Comperiod 6-23-4 Owner has performed ordance with By signing this competition, concern Furthermore, neitor property damage.   | CERTIFIC d, holding a valid as and the State or Freeticut have inspected to 604 formed examinations the requirements of ertificate neither the ing the examination ther the Inspector recommends the requirements of the examination there is a second to the examination that the examination there is a second to the examination that the examination there is a second to the examination that is | ATE OF INSER- commission issued rovidence of North cted the component and taken correcti f ASME Code, Sec the Inspector nor his ms and corrective m or his employer sh kind arising from  | Date 0/20  RVICE INSPECTION by the National Board of the Carolina and employed by the described in this Owner at to the best of my knowled to the be | Boiler and F<br>by HSBI and<br>'s Report due<br>edge and be<br>this Owner's<br>ranty, expres<br>owner's Rep<br>r for any per<br>section.   | ressure II Company uring the lief, the s Report in ssed or bort. rsonal injury |

| 1. | Owner Address:        | Duke Power Company   | 1a. Da           | ite 06/20/98              |
|----|-----------------------|--|------------------|---------------------------|
|    |                       | 526 S. Church Street, Charlotte, NC 28201-1006                             | She              | et 1 of 1                 |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                  |                           |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                  |                           |
| 2a | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)   |                  |                           |
| 3. | Work Performed B      | y: Duke Power Company  | 3a. Work Order # | 98009737/01               |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                             |                  | Repair Organization Job # |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM #  | N/A                       |
| 4. | (a) Identification of | f System: RV 4. (b) Class of System:                                       | В                |                           |
| 5. | (a) Applicable Cor    | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A      | Code Cases       |                           |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                  |                           |
| 6. | Identification of Co  | imponents Repaired or Replaced and Replacement Components:                 |                  |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired Replaced, or<br>Replacement  | ASME Code<br>Stamped (yes or no) |
| A | PIPING SYSTEM     | DUKE POWER   | N/A             | 41                 | 1RV                  | 1981       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| В |                   |              |                 |                    |                      |            | ☐ Repaired ☐ Replaced, ☐ Replacement  | □ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |

#### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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. 7. Description of work: Replaced studs and nuts at valve 1RV-33B Flange joint# 1RV31-FL2 8. Test Conducted: Hydrostatic Pneumatic Nom. Operating Press. Other Pressure psig Test Temp Pressure psig Test Temp Pressure psig 9. Remarks: FLANGE JOINT 1RV31-FL2 IS ON MCFI-1RV31 ISO. (Applicable Manufacturer's Data Records to be attached) CERTIFICATE OF COMPLIANCE We certify that he statements made in the report are correct and this repair or replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A F.R. Sorrow Exec. Supp. Johnson Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Providence of North Carolina and employed by HSBI and I Company of Hartford Connecticut have inspected the components described in this Owner's Report during the period 6-23 98 to 624-98; and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of 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 the Owner's 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. Commissions NB7728, NC853, N-I National Board, State. Providence and Endorsements Date 6 24 . 196

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:       | Duke Power Company   |     | la. Da      | ate 06/25/98              |
|-----|----------------------|--|-----|-------------|---------------------------|
|     |                      | 526 S. Church Street, Charlotte, NC 28201-1006                             |     | She         | eet <u>1</u> of <u>1</u>  |
| 2.  | Plant Address:       | Mcguire Nuclear Station  |     |             |                           |
|     |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |     |             |                           |
| 2a. | Unit: 🛛 1 🔲 2        | 3 Shared (specify units)   |     |             |                           |
| 3.  | Work Performed B     | y: Duke Power Company  | 3a. | Work Order# | 98009744                  |
|     | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                             |     |             | Repair Organization 306 # |
|     | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. | NSM or MM # | MM-10052                  |
| 4.  | (a) Identification o | f System: RV 4. (b) Class of System:                                       | В   |             |                           |
| 5.  | (a) Applicable Con   | struction Code: ASME III 1971 Edition, Summer and Winter Addenda, N/A      |     | Code Cases  |                           |
|     | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |     |             |                           |
| 6.  | Identification of Co | imponents Repaired or Replaced and Replacement Components:                 |     |             |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | PIPING SYSTEM     | DUKE POWER   | N/A             | 41                 | 1RV                  | 1981       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ⊠ Yes                       |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| С |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |
| D |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |

#### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| 7. Description of w   | ork: REPLAC   | ED STUDS AN  | DNU  | TS AT VALVE   |  |  |
|---|---|--|--|---|--|--|
| IRV-76, FLANGE J  | OINT# 1RV-31F   | L1   |  |   |  |  |
| 3. Test Conducted :   | Hydrostatic   | Pneumatic 🗆  | Nom.   | Operating Press.  | Other [  | Exempt 8   |
|   | Pressure  | psig   | 3  | Test Temp   | °F   |  |
|   | Pressure  | psig   |  | Test Temp   | °F   |  |
|   | Pressure  | psig   | 5  | Test Temp   | °F   |  |
| ). Remarks :<br>FLANGE JOINT IR   | V-31-FL1 IS ON  | MCFI-1RV31 IS  | 6O   |   |  |  |
|   |   |  |  |   |  |  |
|   | (Applicab   | ole Manufacturer's Da  | ata Reco   | ords to be attached)  |  |  |
| Certificate of Auth   | Sorrow Exec. Sup  | 101  | non  | Expiration Date 06/25   | on Date <u>N//</u>   | 9 98   |
| Vessel Inspectors of Hartford Conne period 10-15-9 Owner has perform accordance with the By signing this cer implied, concerning Furthermore, point | holding a valid c<br>and the State or P<br>acticut have inspection<br>to 626 P<br>ned examinations<br>he requirements of<br>rtificate neither the<br>the examination<br>her the Inspector n | commission issued to vidence of Nor card the compone ; and state the and taken correct ASME Code, See Inspector nor his and corrective for his employers | ents des<br>that to to<br>tive me<br>ection is<br>is employees<br>measures<br>shall be | ce Inspection  to National Board of It  to lina and employed be scribed in this Owner the best of my knowle easures described in t  XI.  Illoyer makes any war- tres described in the C  te liable in any manne- nnected with this insp | by HSBI and the Report due dge and be this Owner's ranty, expression of the report of  | ring the<br>lief, the<br>Report in<br>used or<br>lort. |
| R. D. Klein, Unspector  | Ellein<br>s Signature   | Commis   | ssions   | NB7728, MC853, National Board, State, P   | THE RESERVE OF THE PARTY OF THE | Endom amount   |

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:       | Duke Power Company   | 1a. Da          | te 06/24/98                          |
|-----|----------------------|--|-----------------|--------------------------------------|
|     |                      | 526 S. Church Street, Charlotte, NC 28201-1006                             |                 | et 1 of 1                            |
| 2.  | Plant Address:       | Mcguire Nuclear Station  |                 |                                      |
|     |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |                 |                                      |
| 2a. | Unit: ⊠ 1            | 3 Shared (specify units)   |                 |                                      |
| 3.  | Work Performed B     | y: Duke Power Company  | 3a. Work Order# | 98009752                             |
|     | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                             |                 | Repair Organization <sup>5</sup> ob# |
|     | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 3b. NSM or MM # | N/A                                  |
| 4.  | (a) Identification o | f System: RV 4. (b) Class of System:                                       | В               |                                      |
| 5.  | (a) Applicable Con   | struction Code: ASME III 1971 Edition, Summer and Winter AdJenda, N/A      | Code Cases      |                                      |
|     | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |                 |                                      |
| 6.  | Identification of Co | mponents Repaired or Replaced and Replacement Components:                  |                 |                                      |

| T | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | PIPING SYSTEM     | DUKE POWER   | N/A             | 41                 | 1RV                  | 1981       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| В |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| c |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| 6 |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |

#### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

7. Description of work: REPLACED STUDS AND NUTS AT VALVE

| 1RV-77B, FLANGE JOINT# 1RV31-FL4   | Name of the second  |  |
|--|---|--|
| 3. Test Conducted : Hydrostatic ☐ Pneumatic ☐ Nom  | Operating Press.  | Other □ Exempt 🖾   |
| Pressure psig  | Test Temp   | °F   |
| Pressure psig  | Test Temp   | °F   |
| Pressure psig  | Test Temp   | °F   |
| 9. Remarks:<br>FLANGE JOINT 1RV31-FL4 IS ON MCFI-1RV31 ISO.  | - 400-00-00-00-00-00-00-00-00-00-00-00-00-  |  |
| (Applicable Manufacturer's Data Reco   | ords to be attached)  |  |
| We certify that he statements made in the report are correct the rules of the ASME Code, Section XI.  Type Code Symbol Stamp N/A Certificate of Authorization No. N/A  Signed F.R. Sorrow Exec. Supp. J. A. Owner or Owner's Designee, Title | t and this repair or rep  | on Date N/A  |
|  |   |  |
| I, the undersigned, holding a valid commission issued by the Vessel Inspectors and the State or Providence of North Carof Hartford Connecticut have inspected the components deperiod 63398 to 600000000000000000000000000000000000          | ne National Board of Frolina and employed be scribed in this Owner' the best of my knowle the seasures described in the XI. The sloyer makes any warranges described in the Object in any manner ownected with this inspection. | y HSBI and I Company 's Report during the edge and belief, the his Owner's Report in eanty, expressed or owner's Report. It for any personal injury section. |

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1. | Owner Address:        | Duke Power Company   |                         | 1a. Da           | ite 6/24/98              |
|----|-----------------------|--|-------------------------|------------------|--------------------------|
|    |                       | 526 S, Church Street, Charlotte, NC 28201-1006                     |                         | She              | et 1 of 1                |
| 2. | Plant Address:        | Mcguire Nuclear Station  |                         |                  |                          |
|    |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                    |                         |                  |                          |
| 2a | Unit: 🛛 1 🔲 2         | 3 Shared (specify units)   |                         |                  |                          |
| 3. | Work Performed B      | y: Duke Power Company  |                         | 3a. Work Order # | 98023694                 |
|    | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                     |                         |                  | Repair Organization Joh# |
|    | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A              |                         | 3b. NSM or MM #  | NSM-12505                |
| 4. | (1) Identification of | f System: GN (Nitrogen )   | 4. (b) Class of System: | В                |                          |
| 5. | (a) Applicable Con    | nstruction Code: ASME III 1971 Edition, Summer and Winter Add      | denda,                  | Code Cases 1     | N-416-1                  |
|    | (b) Applicable Edi    | tion of Section XI Utilizing for Repairs or Replacements: 1989, No | Addenda                 |                  |                          |
| 6. | Identification of Co  | omponents Repaired or Replaced and Replacement Components:         | GN                      |                  |                          |

|   | Column 1          | Column 2             | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|----------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.         | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| А | 1GNTK0004         | Energy & Process Cor | N811-4          | 379                | N/A                  | 1998       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No  ⊠ Yes                      |
| В |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| С |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| Е |                   |                      |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |
| F |                   |                      |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No                             |

### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

7. Description of work: Added tank, bolting material (threaded studs and nuts).

| . Test Conducted   | : Hydrostatic 🗆  | Pneumatic □ No   | m. Operating Press.   | Other   Exempt  |
|--|--|--|---|---|
|  | Pressure   | psig   | Test Temp   | oE.   |
|  | Pressure   | psig   | Test Temp   | °F  |
|  | Pressure   | psig   | Test Temp   | °F  |
|  |  |  | -   |   |
| . Remarks :  |  |  |   |   |
|  |  |  |   |   |
|  | (Applicat  | ole Manufacturer's Data R  | ecords to be attached)  |   |
|  | thorization No. No. No. K. Sherrill (Tech S  | Spec II) Halk. Sher's Designee, Title  | Expiration | on Date <u>N/A</u> 19 <u>98</u>   |
| Vessel Inspector of Hartford Comperiod 5-7-1 Owner has perfor accordance with By signing this cimplied, concern Furthermore, nei | CERTIFIC d, holding a valid of s and the State or Precticut have inspected to 7-9-9 rmed examinations the requirements of ertificate neither the ing the examination ther the Inspector ne | commission issued by rovidence of North Coted the components and taken corrective ASME Code, Section Inspector nor his error and corrective measure his employer shall | TCE INSPECTION  the National Board of It Carolina and employed be described in this Owner to the best of my knowled measures described in the on XI. Inployer makes any warr asures described in the College in any manner to be liable in any manner connected with this inspection.   | y HSBI and I Company 's Report during the edge and belief, the his Owner's Report in eanty, expressed or owner's Report. It for any personal injury |
|  |  |  |   |   |

# FORM N-1A CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS\* Alternate Form for Single Chamber Completely Shop-Fabricated Vassels Only As Required by the Provisions of the ASME Code. Section III, Division 1 Pg.

|  |                                     |                               | As                          | Required                                | by the Prov                                  | laions of t  | he ASME  | Code. Section   | on III, Creak  | on 1 Pg  |                                      | 07   |
|--|-------------------------------------|-------------------------------|-----------------------------|---|--|--|--|---|--|--|--------------------------------------|--|
| 1,2                                    | AU1a                                | THE DOTAT                     | d cartilled                 | by Ames                                 | Ind. To                                      | ech. Ir  | c. 100   | O S. Mad  | ison St.   | . Wilm,  | DE 1                                 | 9801   |
| . Me                                   | nufa                                | crured to                     | Ene                         | rgy & P                                 | rocess                                       | Corp.,   | 2146-B   | , Flints  | tone Dr  | ., Tucke   | E Ga                                 | 3008   |
|  |                                     |                               |                             | McGuire                                 | Nuclea                                       | Stati  | ion, Un  | it  |  |  |                                      | and the second second                        |
| - 1                                    | . 17 1/                             | 100 0000                      | P 100 8                     |   |  |  |  | 11 Rev.   | 1 379  |  | 199                                  | 8  |
| , Ty                                   | Da: "                               | Roc                           | 2onta                       | I NST                                   | 1-4<br>w's sono na.1                         | :Chm   |  | High bearing war I  | Married Married Street, According to the Party of the Par | B4. red  | (wear                                | Gausti                                       |
| '                                      |                                     | Olone.                        |                             |   | 1989   |  | None   |   | None   |  | 2                                    | namen of Shears                              |
| . AS                                   | ME (                                | Cods, Sec                     | ב ווו יוסודט                | Prision 11                              | [ SED RECORD                                 | 0 /7 /   | oddanos (  | .428 in.  | 34 7   |  | 83                                   |  |
| . 50                                   | : the                               | SA240                         | 304                         | 18                                      | 1550   | 9/10   |  | Inc. december desirement  | (04.40)  |  | 'erel Rione'                         |  |
|  |                                     |                               |                             |   | Full   |  |  | ngle Bitt   | None   | Full   |                                      | 1  |
| . 56                                   | ame                                 | Sud1                          | Bucc                        | None                                    | (AT)   | 141  | 1. 51  | (direct)  | (hT'I  |  |                                      | #1 5 Dupry #4                                |
|  |                                     |                               | ***                         |   |  | 550  |  | SA240 30  | AND REAL PROPERTY AND PERSONS ASSESSED TO PROPERTY AND PR | 185  | MAN OF THE PERSON NAMED IN           |  |
| L H                                    | :003:                               |                               | (199 mat.1" wo              | and. (18.1                              | :01  | make strategies  | CHECK T  | !(%) marl. a  | puć. 54.1  |  | erio metamore                        | -  |
|  |                                     | 400                           | APPL DEBAL                  | This pass                               | Godene                                       | Marina<br>Marina   | 1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>100  | April April   | M artine persons as<br>M and Rea   | Cil acre que ser   | Icomes                               | er concern                                   |
| : (                                    | 41 1                                | To                            | 00                          | 9/10                                    | CORNECT CONTRACT CONTRACT ACCURAGE A         | 6 in.  | 2:1  |   |  |  | Conc                                 | Name and Address of the Owner, where         |
| : 1                                    | b1                                  | Boti                          | mes                         | 9/1                                     | 5   32 in.                                   | 6 in.  | 2:1  | -   | Other fasteni  | None   | OCA TERROPARTOR STATE                | THE PARTY OF                                 |
| 18                                     | reme                                | vable. bo                     | . DO AN ADIC                | None                                    | LATOR I. LOG                                 | e, 10, 7, E. se  | F 6'V GPINEY!  | - And Care  |  | - chelled by   | BO BY BALLECA                        |  |
|  |                                     |                               | . 450                       |   | 120  | tale stan  | **************************************   | no5   | mygro., pneu.,   | or coma, that  | pressure                             | 563  |
|  |                                     |                               |                             |   |  | MIN. Stes  | 3015-1931 101  | 1,461   |  |  |                                      | -gar,  |
| 0. N                                   | ozzie                               | s. Inspec                     | t the not:                  | etery veive o                           | perungs:                                     |  |  | 1 1   | h-parameter Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-   | I' Contractions  | med                                  | econolism di Albanomi                        |
| 1                                      |                                     | ucquare threat                |                             | Quantity                                | . 01e. or 540                                | These  | T SABELINE<br>Man.   | Mag1.   | Thi dissess  | Mercunar   |                                      | Lagreen                                      |
| -                                      |                                     | e / Out                       |                             | 1 1                                     | 2 in.  | Pipe   | REMERCAS   | SA312   |  |  | WHEN PERSONS NAMED AND POST OFFI     | rell   |
|  | ATTERIOR THOMAS                     | MINET PROGRAMMENT AND PERSONS | & Drain                     | 2 .1                                    | 3/4 in.                                      | ISWEC  | Remades  | SA182   | 3000#  | None   | P THE PROPERTY AND PERSONS ASSESSED. | all & H                                      |
| P                                      | sectioning to Albert                | & Inst                        | Mary and the second         | 2                                       | l in.  | SWFC   | Remades  | SA1821  | 3000#  | None   | 87                                   | ell & S                                      |
| - 24                                   | Responses:                          | MANUFACTURE CONTRACTOR        |                             |   | de himania inggrandia de antimo en es        |  | Non  |   | Walded t   | o heads  |                                      | Martin Language - 47-100                     |
| 11. 5                                  | Suco                                | ers: Skin                     | Yes                         | سے انوں                                 | Legs _                                       | NOUS C   | ישפטייו וישוריין   | e Arrachad  | The second second  | Homeson & MO   | ( ने                                 | 198  |
|  |                                     |                               | 11 11-                      | antan A                                 | ra Made                                      | of Sta   | Reslain  | Steel G   | rade 30  | 4  | Ty.                                  | 11-  |
| 12.                                    | 2" IX                               | oz. Pec                       | NO-4044                     | 1 90 1 1 1 20 1 -                       | MIII CHIPPE                                  | 1 8 To 1 But   | B 12 / 2011 1 100 1 100  |   |  | THE PERSON NAMED IN COLUMN 1   |                                      | manage - Abids                               |
|  | -                                   | it darame                     | # FRO'! HOSA DE             | in Clas discuss                         | Autosem Os aardoup                           | - Disamore   | - Andrewson and the same of  | CONTRACTOR OF STREET  | <b>P</b> 0.  | Court de l'étable  |                                      | VA. ADDRESS AND THE                          |
| Marrison                               | AL COMPANY                          |                               |                             |   |  |  | ATION OF O   | ESIGN   | Score NC   | Reg. no  | 978                                  | 1  |
| Desk                                   | 20 606                              | ectication                    | ers contifie                | doy Ric                                 | hard H.                                      | senor  | -  |   | State NY   | Red, no  | 059                                  | 30   |
| Desig                                  | on ree                              | יסת כפתו                      | fled by                     | LUTT 9                                  | HANDERSON WATER CONTRACTOR OF TAXABLE PARTY. | The same of the sa | destablishment and an annual section of the section | THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.  | P. O.O.O. C.   | The same of the sa |                                      | CHEST CONTRACTOR AND ADDRESS OF THE PARTY OF |
| DA. LOS MORNOSOS                       | accomply wear t                     |                               |                             |   | Că   | RTIFICATE  | OF SHOP C  | DMPUANCE  | stagma to the  | nues lar cans  | michan                               | ai the A                                     |
| We c                                   | remin                               | יחו ובוט א                    | a distand                   | ni sbam syn                             | Lus tabout and                               | carret and   | נחפד נחום חט   | clest vessel col  | HONNE TO THE   | rdiva for carry  |                                      |  |
|  |                                     |                               | Olvesion 1.                 |   | N-2936                                       |  |  | Expir   | Decem  | ber 9,   | 1999                                 |  |
| N C                                    | morte                               | 1997                          | Monzaue                     | Ame                                     | Indusc                                       | rial T   | echnolo  | Exon<br>29199gned   | Miga   | M BARNESS LABORAGE   | M (Motors                            |  |
| DARA                                   |                                     | 1.64                          | A CONTRACTOR OF THE         | 1911-0                                  | 'M Ca  | Mitchel Mental   |  |   |  |  |                                      |  |
| ************************************** |                                     |                               |                             |   | -  | TT A PARTERNA  | AN SHOP I  | MARPHETTICIN  |  |  |                                      | or Pravin                                    |
| 1. In                                  | e uno                               | eraidned                      | , holding                   | valid commi                             | estan issued b                               | y the Nation   | Union  | Tosuran   | ce Compa   | DY   |                                      |  |
|  | Del                                 | avar                          | 7                           |   | . D en en 64 en en                           | DA D   |  | <b>円里しゅ 1円当236年</b> 。1  | ad the compan  | and by or an Section or or or or   | in this D                            | era Reoc                                     |
|  | -                                   | 11910                         | 8                           | and atten                               | nat to the bee                               | on my 100  | wiedge and D   | euet, the Carat   | care Holder No   | ים בפתשורווכלפס  | וחוז בסח                             | neneer                                       |
| 100                                    |                                     | amendana a                    |                             |   |  |  |  |   |  |  |                                      |  |
|  |                                     |                               |                             |   |  | משטומאפי שו  | akas arry was  | manty, excrete  | so or implied, t   | servers server   | 9' 01984                             | NY game                                      |
| -                                      | Na O                                | NA Renor                      | R. FURRAN                   | more, neghat                            | TOP IN EGERGEON                              | nor his emai   | OV OL ZUZN GO  | idaele in any m   | autum 10% Bull 2   |  |                                      |  |
| lo de                                  | 10 2                                | 19/91                         | ansing in                   | orn or connes                           | too with the in                              | a serdental  |  | Cammissio   |  |  |                                      |  |
| _                                      |                                     |                               | nc softmangersorreining     | germanicidity concurs librarida (1880)  |  |  | and personnel t  | I to the state of | 1. (21 languages   | on in itemany i th o   | Magn & om                            | UPRE GRIE                                    |
| in or                                  | annysianum<br>med Lusida<br>/ \$ 64 | Man and M                     | ernaman in i<br>anam, 131 e | egens od Pepp. sa<br>1960 spenski is pa | mesoned and must<br>then term (EOO)          | 1281 may be a  | SALES LANGE LANGE OF   | THE OVER CHET. A  | 8648, 72 Laus Ca   | ries, Bert 136°C.  | Permana. I                           | U OTOUT                                      |

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:       | Duke Power Company   |           | la. Da         | te 6/24/98                |
|-----|----------------------|--|-----------|----------------|---------------------------|
|     |                      | 526 S. Church Street, Charlotte, NC 28201-1006                             |           | She            | et <u>1</u> of <u>1</u>   |
| 2.  | Plant Address:       | Mcguire Nuclear Station  |           |                |                           |
|     |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                            |           |                |                           |
| 2a. | Unit: ⊠ 1 □ 2        | 3 Shared (specify units)   |           |                |                           |
| 3.  | Work Performed B     | y: Duke Power Company  | 3:        | a. Work Order# | 98023729                  |
|     | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                             |           |                | Repair Organization Joh # |
|     | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A                      | 31        | b. NSM or MM#  | NSM-12505                 |
| 4.  | (a) Identification o | f System: GN (Nitrogen ) 4. (b) Class of                                   | System: B |                |                           |
| 5.  | (a) Applicable Con   | nstruction Code: ASME III 1971 Edition, Summer and Winter Addenda,         |           | _ Code Cases N | 1-416-1                   |
|     | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, No Addenda |           |                |                           |
| 6.  | Identification of Co | emponents Repaired or Replaced and Replacement Components: GN              |           |                |                           |

|   | Column 1          | Column 2             | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|----------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.         | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1GNTK0001         | Energy & Process Cor | N811-5          | 380                | N/A                  | 1998       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ☑ Yes                       |
| В |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| С |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| E |                   |                      |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| F |                   |                      |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |

### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 ia. (2) information in items 1 through 6 on this 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.

| 7. | Description of work : Add  | ed tank, bolting mat  | erial (th   | readed studs and nuts  | 3)   |   |
|----|--|---|---|--|--|---|
| 8. | Test Conducted : Hydrostatic   | c □ Pneumatic □   | Nom   | . Operating Press. 🛭   | Other 🗆  | Exempt  |
|    | Pressure   | ps  | ig  | Test Temp  | °F   |   |
|    | Pressure   | SWINGER SENSON AND ADDRESS OF STREET, | ig  | Test Temp  | °F   |   |
|    | Pressure   | ps  | ig  | Test Temp  | °F   |   |
|    | Remarks :  |   |   |  |  |   |
|    |  |   |   |  |  |   |
|    | (Ap  | pplicable Manufacturer's  | Data Reco   | ords to be attached)   |  |   |
|    | Type Code Symbol Stamp N/A Certificate of Authorization No Signed Hal K. Sherrill (Te Owner or   | N/A   | Sher  | Date 6/24  | on Date N/   | A<br>9 98   |
|    | CERTIII. I, the undersigned, holding a valvessel Inspectors and the State of Hartford Connecticut have in period 5-7-98 to 7-9 Owner has performed examinat accordance with the requiremer By signing this certificate neith implied, concerning the examinate furthermore, neither the Inspector property damage or a loss of | alid commission issued or Providence of Nonspected the compored is and state tions and taken corrections of ASME Code, were the Inspector nor nations and corrective tor nor his employed   | ned by the orth Car<br>nents de that to ective m<br>Section his emp | rolina and employed be scribed in this Owner the best of my knowle easures described in XI. Sloyer makes any war ares described in the Ce liable in any manner | by HSBI and i's Report du edge and be this Owner's ranty, expres Owner's Report for any pe | I Company<br>uring the<br>lief, the<br>s Report in<br>essed or<br>port. |
|    | Randy Klein ANII  Inspector's Signature  Date 7-9, 19-98   | Jewcomm   | issions   | National Board, State, F   | MC853<br>Providence and  | S <sub>2</sub> N - T<br>Endorsements                                    |

# FORM N-1A CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS\* Alternate Form for Single Chember Completely Shop-Fabricated Vessels Only An Required by the Provisions of the ASME Code. Section III. Division 1 Pg. 1 of 1

|          |  | Le Required B                             |  |                       |                 |  |  |  | The distribution of the second   |
|----------|--|---|--|-----------------------|-----------------|--|--|--|--|
| 1. Man   | ursclured and ceruft   | ed by ARGE                                | Ind. To                                      | ch. In                | c. 1000         | O S' Mad   | ison St.   | Wilm,  | DE 19801   |
| 2. Man   | utactured for En   | ergy & Pr                                 | ocess (                                      | Coro.,                | 2146-B          | , Flints   | tone Dr.   | , Tucke  | r Ga 30084   |
|          |  |   | Man = 1 0 = 1                                | . stati               | on. Un          | it   |  |  |  |
| 1. 400   | Sten of inerellation   | 71  | maran manapanak-dalah peru                   |                       | leage           | HOPODE ONE ON  | 1 39   | ^  | 1998   |
| 7-1-9    | ROCIZONE   | al N81                                    | -5   | NA                    | N8              | TT KEO.  | (Man'l, 1  | M. AQ.I  | 300 001)   |
| 1/1 198  | Chana. 3c vanc.)   | (Cart, Pagistan)                          | 1989   | 101111                | None            |  | None   |  | 2  |
| 5. ASA   | WE Case, Section III,  | Division 1:                               | IMPLATOR                                     |                       | (and areas d    | 420 :-   | 1Come Cases Per  | /8 in-   | 83 in.   |
| a She    | ME Cana. Section III.  | 18  | 550  | 9/16                  | 0               | . 420 In.  | u les 10   | TAKIL I  | angra (propost) if & in  |
| 0, 5114  | mati poe me.   | + None                                    | Full   | 10                    | o str           | ngle Art   | None   | Full   | 1  |
| 7. Ses   | me: SRY1 BUC   | 100 T'1                                   | (AT)   | (eri                  | 1. %)           | (drein)  | (NT')  | :An  | ina, of taumes   |
| Q Mas    | SA240 30   | )4<br>1000. No.A                          | 18   | 550                   |                 | SA240 30   | ) 4<br>mac, ma.i   | 185  | Die otward(b)  |
| 6        | (a) #el7.  | 1986. NV.1                                | 111  | Hadden & g. chaddon ) |                 | Campa  | of despression proof fill  | - An   | See to process   |
|          | HES. PANEM. IFOS   |   | Gramus<br>Gramus                             | #adma                 | 1400 CM         | adaa Amgiu   | Angius   | Clemone  | IKBANGS OF CENCORS   |
| : (0     |  | 9/16                                      | 1 32 in.                                     | 6 in.                 |                 | 1 -  |  |  | Concave  |
| . 10     |  | 9/16                                      |  | 6 in                  | 2:1             | -  | THE STREET STREET, STR | Nano   | AND DESCRIPTION OF THE PARTY OF |
| 11       | emovenie. Soits uses   | None                                      | and the second little or again, and a second | e, re., T.1., see     | 145 A W M. T.   | Marine Marine Marine Marine  | _ Other fastening  | (4 4044)   | HE OF BUT WELL STRUCTS   |
|          | eign Pressure: 450   | 1   | 120  | Min needs             | MUA-rest ter    | -5   | Hvdro., preu   | or come. :set  | pressure 563   |
|          |  |   |  | m. , 101. pros.       |                 | (.0  |  |  |  |
| 10. No   | zzies, inspection and  | de sales Asses ob                         | enings:                                      |                       | -               |  | The state of the s | . Assertante   | SK   |
|          | Language Historic,   | Gatomia                                   | · (1)e. or \$1.50                            | Tvos                  | Appendictions . | Mari T.  | Thickness.   | No Promo a Mc  | Peranen  |
| -        | inlet / Oxlet  | - I                                       | 2 in.  | Pipe                  | Remades         | SA312  | THE RESERVE AND PERSONS ASSESSMENT AND PARTY OF THE PERSONS ASSESSMENT ASSESSMENT AND PARTY OF THE PERSONS ASSESSMENT ASSESSME | SA240 3  | 04 Sell  |
|          | alif Valve & Drai  | in 2 .L                                   | 3/4 in.                                      | SWEC                  | Remarks         | SA182  |  | None   | Shell & Rea  |
| game.    | or. & Instr.   | 2   | l in   | . I SWFC              | Remades         | SA1821   | 3000#  | NOISE  | Carrie de Carrie   |
|          |  |   |  | None                  | None            | e Assuccian  | Welded t   | o heads  |  |
| 11. 5    | Jopons: Skut Yes   | Lugs -                                    | meri 693                                     | MOUSE D               | (Mar (Queens)   | MATERIAL .   |  |  | Finher   |
|          |  | seales Ar                                 | ohem or                                      | of Sta                | inless          | Sceel  | rade 304   | 1  | 1  |
| 12. 2    | " noz. Per NC-42   | 44(b)-1-(a).                              | All others                                   | per NCA2              | AA(C)-1-(D      | hand my ou outling i   | y014.  | COLUMN TO SERVICE SERV |  |
|          | id ppypowed hand to  | Stee. 'Usy series i                       | badelon no delfavo                           | wall processing       | TION OF D       | PSIGN  |  | COLUMN TO SERVICE AND SERVICE  |  |
|          |  | Rich                                      | nard H.                                      | Benoit                | -               | P.1  | Store NC   | Reg, no  | 9781   |
| Contigr  | n report certified by  | Phil T                                    | eperov                                       |                       |                 | P.1  | E. State NI  | Req. no  | -  |
| -        | graver and an annual statement of the same of  | RECEIVE. AND STORY OF THE PERSON NAMED IN | Table Spinistry Spinistry                    |                       | 25 CHOP C       | DMPUANCE   |  |  |  |
| We st    | eretty that the statem   | th mi soum Einem                          | HS 1800TT 318                                | correct and           | נחפו נהופ חשו   | clear vesual co  | nforms to the  | rules for cons   | truction of the Aba  |
| Code.    | Secnon III. Ofvision   | 1,  | N-2036                                       |                       |                 | Evale  | Decem  | ber 9,   | 1999   |
| N Car    | Seemon III. Ofvision   | uen No.                                   | Indust                                       | rial T                | echnolo         | gienned -  | m. 72  | - Annual Control of the Control of t |  |
| DATE     | 2111/18  | Name _Qui                                 | IN Ca  | producted standard    |                 | The second secon |  | William dad Lede som   | The state of the s |
| -        | STATEMENT AND DESCRIPTION OF THE PARTY OF TH |   |  |                       | OH CHON !       | MAGGACTION   |  |  |  |
| I I, the | undersigned, noidle  | g e valid cammie                          | d Deurasi Roma                               | v the Naden           | finion.         | TARUEAN  | ce Compa   | DY   |  |
|          | lelavare   | . 3nd employed b                          | ry   | MA                    |                 | have inspect   | no the compon  | em described   | in the Data Recon  |
| -        | 5/19/08  | and state th                              | see to the bes                               | a of my know          | wiedge and o    | eller, the Carol   | Cate Holder Ne   | bs source on a   | this component in t  |
|          |  |   |  |                       |                 |  |  |  |  |
| - Mile " | ence with the ASME equing this certificate is Date Report. Furth   | namer the inse                            | ectar nor nes                                | oot his email         | DA DE SENS      | fl. 's in any m  | service for any p  | STEER MINER  | or property awards   |
| a        | da Date Record. Fund   | trom of correct                           | ed with this n                               | מוניים                |                 |  | Nn 4   | 1050 1   | 08812  |
| GA15     | of envided sharp   | 96  | 1  | Still Co              |                 | Commission   | one NB   | Pear Oversi esterate   | 1 01.510 OF \$1-50 and 110.1   |
|          |  |   |  |                       |                 |  | THE RESERVE THE PARTY OF THE PA | C. SERVICES CO. CO. C.   | ROLL & ON USE COTE AS  |

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### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1.  | Owner Address:        | Duke Power Company   |                         | la. Da           | ate 6/24/98               |
|-----|-----------------------|--|-------------------------|------------------|---------------------------|
|     |                       | 526 S. Church Street, Charlotte, NC 28201-1006                   |                         | She              | eet <u>1</u> of <u>1</u>  |
| 2.  | Plant Address:        | Mcguire Nuclear Station  |                         |                  |                           |
|     |                       | 12700 Hagers Ferry Road, Huntersville, NC 28078                  |                         |                  |                           |
| 2a. | Unit: ⊠ 1 □ 2         | 3 Shared (specify units)   |                         |                  |                           |
| 3.  | Work Performed By     | y: Duke Power Company  |                         | 3a. Work Order # | 98023732                  |
|     | Address:              | 526 S. Church Street, Charlotte, NC 28201-1006                   |                         |                  | Repair Organization Job # |
|     | Type Code Symbol      | Stamp: N/A Authorization No. N/A Expiration Date: N/A            |                         | 3b. NSM or MM #  | NSM-12505                 |
| 4.  | (a) Identification of | f System: GN (Nitrogen )   | 4. (b) Class of System: | В                |                           |
| 5.  | (a) Applicable Con    | struction Code: ASME III 1971 Edition, Summer and Winter         | Addenda,                | Code Cases       | N-416-1                   |
|     | (b) Applicable Edit   | tion of Section XI Utilizing for Repairs or Replacements: 1989.1 | No Addenda              |                  |                           |
| 6.  | Identification of Co  | mponents Repaired or Replaced and Replacement Components:        | GN                      |                  |                           |
|     |                       |  |                         |                  |                           |

|   | Column 1          | Column 2             | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|----------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg.         | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1GNTK0003         | Energy & Process Cor | N811-3          | 378                | N/A                  | 1998       | Repaired, Replaced, Replacement       | □ No ☑ Yes                       |
| В |                   |                      |                 |                    |                      |            | Repaired, Replaced, Replaced,         | □ No                             |
| С |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| D |                   |                      |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| Е |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Repiaced, ☐ Replacement | □ No □ Yes                       |
| F |                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No                             |

### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

7. Description of work: Added tank, bolting material (threaded studs and nuts).

| . Test Conducted :   | Hydrostatic []   | Pneumatic No  | om. Operating Press.  | Other Exempt Exempt   |
|--|--|---|---|---|
|  | Pressure   | psig  | Test Temp   | °F  |
|  | Pressure   | psig  | Test Temp   | °F  |
|  | Pressure   | psig  | Test Temp   | °F  |
| Remarks :  |  |   |   |   |
|  |  |   |   |   |
|  | (Applicab  | le Manufacturer's Data F  | lecords to be attached)   |   |
| Signed Hal K   | C. Sherrill (Tech S<br>Owner or Own  | pec II) Halk. S   | herrif Date 6/24  | on Date <u>N/A</u> 19 <u>98</u>   |
| Vessel Inspectors of Hartford Conne period 5-1-9 Owner has perform accordance with the By signing this certimplied, concernin Furthermore, neith | holding a valid cand the State or Posticut have inspected to 7-9-90 med examinations are requirements of trificate neither the gathe examination are the Inspector neither the I | ommission issued by rovidence of North Coted the components; and state that and taken corrective ASME Code, Section Inspector nor his end corrective mesor his employer shall | VICE INSPECTION  If the National Board of It Carolina and employed by described in this Owner  to the best of my knowled measures described in the on XI. Impleyer makes any warr asures described in the Collaboration of | y HSBI and I Companer's Report during the edge and belief, the this Owner's Report in eanty, expressed or owner's Report. |
| Randy Klein AN Inspector   | s Signature  | Commission  | National Board, State, Pr   | C853,N-Z  |

|       | '  | Attento   | was Engre !   | or Single Ci   | h-mber C   | ompletely  | PORT FOR<br>Shop-Fabric<br>Codu, Section   | Sted Asses   | RE CLIMA   | . 1 . 01 _   | 1                     |
|-------|--|---|---|--|--|--|--|--|--|--|-----------------------|
|       | The second second  | CONTRACTOR OF THE PARTY OF THE | on way conserved them.  | CHARLES THE PARTY OF THE PARTY  | The second state of the se | CALCULATION OF THE PARTY OF THE | O S'. Mad  | STATE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAMED IN C | 1  | DE 1980  | 1                     |
| 1. 2  | SUGSECTION S   | Fra F   | av & D  | rocess C   | orp.,  | 2146-B   | , Plines   | tone Dr  | ., Tucke   | r Ga 30  | 084                   |
| 2. N  | enufactured fo   |   |   |  |  |  |  |  |  |  |                       |
| 3. 4  | ocation at inen  |   | cGuire  | Nuclear  | Stati  | on, un   | 1 C  | ***************************************  | NAMES AND POST OFFICE ASSESSMENT OF THE PARTY OF THE PART |  | -                     |
| 4 40  | at ileyt   | iral  | 401   |  | NA   |  | 11 Rev.  | 1 375  | ?  | 1998   |                       |
| 14, T | ype: Boc   | zontal  | NO 1  | X sunu sq.   | (CAN)  |  | 1000 mg Pd .1  | CHEST WAS A STATE OF THE PARTY  | Be. re.1   | Charles correct  | No. of Street,        |
| 198   |  |   |   | 1989   |  | None   |  | None   |  | 2  |                       |
| 5. A  | SME Cook, Se   | iction III. Div   | rision 1:   | (m) Mont   | 9/16   | ( egglorett (  | .428 in-   | 34 7   | /8 in.   | 83 in  |                       |
| 6. 8  | hell: SA240  | 304   | 18  | 550  | J/ L   | sun.Il in  | of deep prosecuti  | (88.10   | Pr & un.  1 !  | evell these is   | -                     |
|       | sems: Sag  | Burt  | None  | Full   | 10   | 00 51  | rgle art   | None   | EGIT   | 1  |                       |
| 7, 8  | ioesma:  | 461   | 1247°1  | PATI   | 1011   |  | (dr. w)  | (MT '9   | IST  | ING. BI CRY  | 401                   |
|       | leeds: SA2   | 40 304  |   | 18:  |  |  | 5A240 30   | SHORM SANSAN PROPERTY OF THE P | 185  | DO NAME OF THE PARTY OF THE PAR | _                     |
| a     | 10003.   | ((a) sect), see   | v. rd.1   | 108  | nece Landin  |  | Laboration of the Contraction of |  | 1  | Side to Freed  |                       |
|       |  | CABON<br>Rom, sweet   | Phiermas  | Bagus  | Region :   | Aeno   | AND ANGO   | ri agai ag hariaga<br>Asaphi s   | Class and  | 1000met en cau   |                       |
|       | A CONTRACTOR OF THE PARTY OF TH | 00  | 9/16  | 32 in.   | 6 in-1   | 2:1  | 1  | ~  | -  | Concav   | 9                     |
| 1     | THE RESIDENCE AND PROPERTY OF THE PERSONS  | Tom   | 9/16  | BETTER THE PERSON OF THE PERSO | 6 in.  |  |  | -  | -  | Concav   | <u>e</u>              |
|       | f removeble.   |   | Name and Associated Association of the Association |  |  | STREET, OF STREET, STR |  | Other Issten   | ng None  | IS ST PRINCH MATER   | 19                    |
| 9     | Gaalon Great   | 450   | at max, te  | mo. 120  | . Min. 2013  | sura-test ter  | no5  | Mygro., pneu.  | or come, tes   | פרפששערם _5  | 63                    |
|       |  |   |   |  |  |  |  |  |  |  |                       |
| 10.   | Vozzies insemi   | ction and sa  | ASIA ASIAG OF   | Scarses Am   | 1  | HOw .  | T  | AND STREET, ST | - Band ordered   |  |                       |
| dia   | ouner, draw  |   | GRANKEN   | . DIE & 540  | Tros   | Attached   | Mer.T.   | Theiross   | Meterel  | Loca   | pag it                |
|       | Inlet / ()   |   | 1   | 2 in.  | Pipe   | Remarks  | SA3121   | AND RESIDENCE OF THE PERSON NAMED IN   | SA240 3  |  | - 17-                 |
|       | Relif Value  | Design Printed Street, and Address and Printed  | 2 .1  | 3/4 in-  | SWEC   | Remarks  | SA182  | 3000#  | None   | Shell a  | MODEL BANK BELLEVILLE |
|       | Aix. & Ins   | Control Manual Control  | 2   | l in.  | SWFC   | Remades  | 5A1821   | 3000#  | HOUR   | J. Ed. L   | Ca C A                |
|       |  |   |   | 5  | Nana   | Non  | 0  | Welded   | to heads   |  | BACILLA COMPANIES     |
| 11.   | Supports: Sl   | Yes r   | - 'wga  | Legs_  | NOUS 0   | Clat Tooli   | e Atteched   |  | 1  | AIH!   | -                     |
|       | . ,  | 11 No.2   | 7109 A  | re Made  | of Sta   | inless   | Steel G  | rade 30  | 4  | 40:00  |                       |
| 12.   | 2" noz. 9  | NO-4244   | b)-1-(a).   | All others   | per NCAZ   | 14(c)-1-(b   | -2)  |  | A  | -  |                       |
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|       |  |   |   |  |  | TION OF D  | RDEZEN   | NC   | 000 00   | 9781   |                       |
|       | ign epacifice  |   | Phil T  | hard H.  | Dellord  | P COLUMN TO THE REAL PROPERTY.   | pl p   | State NC   | Reg. no  | 05930  |                       |
| Oes   | ign report cert  | fled by   | E 14 & A  | Manager of Street, Str | CONTRACTOR OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE  | THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.   | MARKET PERSON OF MARKET PARKET   |  | Marian Ma | -  | ,                     |
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|       |  |   | ts made in th   | אוש ושספת פוש  | COPPECT STIG   | un eini rant   | CIEBL A63861 CO  | maime to the   | 10.00  |  |                       |
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|       |  |   |   | CE   | DITIFICATE   | OF SHOP  | NSPECTION  | Vannet (com  | nectors and th   | State or Pro   | rvinc 8               |
| 11.   | he underednes  | s, haiding a  | valid commit  | Comm   | ercial   | Union  | Insuran  | ce Compa   | ny_  |  | north Millians of     |
| 1     | Helavar  | 30  |   | Roston   | . MA   |  | WENN INSPACE   | ed the compar  | JAN GERTINAS   | in this Oats A   | legor                 |
| 1-    | 5/19/01  | ,   | . and state ti  | net to the best  | ים וווא צחם  | wiedde and p   | ellet, the Carat   | Icate Holder N   | es constructed   | this compone   | ent in                |
| 60    | rdance with th   | B ASME CO   |   |  |  |  |  |  |  |  |                       |
| B     |  |   |   |  | ambiover mi  | 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | ranty, express   | en or implied.   | asteonel intury  | OF BPOSETTY 6  | Perma                 |
|       | IN'S CALE AGOO   | irt, Furcherin  | nore. nerther   | me inspector   | securion.  | Gree Sman De   | and and an   |  |  |  |                       |
|       | 1000 of any kind   |   | A GL GOLDING  | 7-8  | Kellin   |  | Commissio  | ne NB  | 5105B, N   | DES12  | ung net.              |
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<sup>&</sup>quot;Suggistermental Information in term of flare, an example, or optimizing may be used promoted (1) their is 6 % × 11, 12) information in House 1 groups 4 on the Cate Act is produced on a near wheel, (3) waste extend to repeat and resource of countries of top of gold force.

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This form (EQCIC) in may be obtained from the Order Cape, A \$146, 22 Love Order, Rest 1500, Fairfled, NJ 07007-22

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1. | Owner Address:       | Duke Power Company  |                         | la. Da           | ate 6/24/98              |
|----|----------------------|---|-------------------------|------------------|--------------------------|
|    |                      | 526 S. Church Street, Charlotte, NC 28201-1006                  |                         | She              | eet 1 of 1               |
| 2. | Plant Address:       | Mcguire Nuclear Station   |                         |                  |                          |
|    |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                 |                         |                  |                          |
| 2a | . Unit: 🛛 1 🔲 2      | 3 Shared (specify units)  |                         |                  |                          |
| 3. | Work Performed B     | y: Duke Power Company   |                         | 3a. Work Order # | 98023737                 |
|    | Address:             | 526 S. Churc' Street, Charlotte, NC 28201-1006                  |                         |                  | Repair Organization Joh# |
|    | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A           |                         | 3b. NSM or MM #  | NSM-12505                |
| 4. | (a) Identification o | f System: GN (Nitrogen )  | 4. (b) Class of System: | В                |                          |
| 5. | (a) Applicable Cor   | struction Code: ASME III 1971 Edition, Summer and Winter        | Addenda,                | Code Cases       | N-416-1                  |
|    | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, | No Addenda              |                  |                          |
| 6. | Identification of Co | imponents Renaired or Replaced and Replacement Components:      | GN                      |                  |                          |

| Column 1          | Column 2             | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8  |
|-------------------|----------------------|-----------------|--------------------|----------------------|------------|---------------------------------------|---|
| Name of Component | Name of Mfg.         | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no)  |
| 1GNTK0002         | Energy & Process Cor | N811-2          | 377                | N/A                  | 1998       | ☐ Repaired, ☐ Replaced, ☑ Replacement | □ No ⊠ Yes  |
|                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes  |
|                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes  |
|                   |                      |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes  |
|                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced,               | □ No  |
|                   |                      |                 |                    |                      |            | ☐ Repaired, ☐ Replaced,               | □ No  |
|                   |                      |                 |                    |                      |            |                                       | Replaced, Replacement Repaired, Replaced, Replaced, Replaced, Replaced, Replaced, Replaced, Replaced, |

### Form NIS -2 (Back)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

|   |   | nk, bolting mater                      |  | 5).                |                         |
|---|---|--|--|--------------------|-------------------------|
| 3. Test Conducted                               | i: Hydrostatic 🗆  | Pneumatic []                           | Nom. Operating Press. ⊠  | Other 🗆            | Exempt [                |
|   | Descues   | ncia                                   | Test Temp  | °F                 |                         |
|   | Pressure  | psig<br>psig                           |  | •k                 |                         |
|   | Pressure  | psig                                   |  | °F                 |                         |
|   | riessure  | Pare                                   |  |                    |                         |
| ). Remarks :                                    |   |  |  |                    |                         |
| the of the A                                    | CER   | TIFICATE OI                            | ata Records to be attached)  F COMPLIANCE  correct and this repair or re             | placement co       | onforms to              |
| Certificate of Au                               | bol Stamp N/A<br>uthorization No. N/<br>K. Sherrill (Tech S<br>Owner or Own | pec II) Halk,                          | Surrill Date 6/24  | on Date <u>N//</u> | <u>A</u><br>9 <u>98</u> |
| Certificate of Au                               | uthorization No. N/ K. Sherrill (Tech S  Owner or Own                       | spec II) Halk,<br>er's Designee, Title | Surrill Date 6/24  | 1                  |                         |
| Certificate of Au Signed Hal  I, the undersigne | CERTIFIC ed, holding a valid c  | ATE OF INSE                            | Expirate 6/24  CRVICE INSPECTION d by the National Board of th Carolina and employed | Boiler and F       | 9 98<br>Pressure        |

S C SOC DI SO BS CONT ENERGY & PROCESS

-- 4.3/6

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| 2. M       | innufactured for   | ergy &   | Process  | Corp.,   | 2146-B   |  |  | ., Tuck  | er Ga 3008   |
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|            | DI BOTTOR  | 9/   | 16   32 in.  | 6 in-  | 12:1   | -  | _  |  | Concave  |
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| ni         | Purposes Ilinos.   | d seisty valv  | The state of the s | 1  | Honer  | T == 1   | Thispease  | Respectant   | ant  |
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|            | Purpose Union.<br>audist. Stein, steil   | South  | · Gio. pr Size   | Pipe<br>. SWFC   | Remarks  | SA312  | 0.154  | Respectors<br>Manual<br>SA240  | om   Laceron<br>304 : Shell<br>Shell & He  |
| 11.        | Inlet / Oflet   Relif Value & Dra  | 1<br>in 2<br>2<br>   | dia sise  i in.  3/4 in  l in  2 Legs.   | Pipe<br>SWFC<br>SWFC<br>None<br>of Sta   | Remarks  | SA312:<br>SA182:<br>SA182:<br>SA182:<br>ATTROMED.  | 0.154<br>3000#<br>3000#<br>Welded t  | SA240 SA240 NORE NORE  | Shell & He   |
| 11.        | Supporta: Skirt Yes  Remarks: All a  Transportations carrie  | 1 in 2 2 2 C22 PS 44(b)-1-(a)  | 2 Legs. Are Made   | Pipe<br>SWFC<br>SWFC<br>None<br>of Sts<br>sper NOA2  | RETECTION OF O   | SA312:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA182:<br>SA | 0.154<br>3000#<br>3000#<br>Welded t  | SA240 SA240 None   | Shall & He   |
| 11.<br>12. | Supporte: Skirt Yes Remarks: All and reported from the securities of the securities  | 1 in 2 2 2 Cogs  | 2 tegs. Are Made All Care  | Pipe<br>SWFC<br>SWFC<br>None<br>of Sta<br>Sper NCA22<br>CERTIFICATE  | Remarks  | SA312: SA182: SA   | 0.154 3000# 3000# Welded to rade 304 etc.  State NC NY   | Reg. no.   | Small & He  |
| 11.        | Supporta: Skirt Yes  Remarks: All a  Transportations carrie  | 1 in 2 2 2 Cogs  | 2 tegs. Are Made All Core  | Pipe SWFC SWFC None of Sta sper NCA2 construction CERTIFICATE CONTROL FOR  | Remarks  | SA312: SA182: SA   | O.154 3000# 3000# Welded to rade 304 etc.  State NC State NY   | None None None None None Reg. ne   | Smil & He AS   |
| 111.       | Supports: Skirt Yes Supports: Skirt Yes Per No. 2  The extreme from the state of th | in 2 2 2 44(b)-1-(2 Phil   | 2 tegs. Are Made All Core  | Pipe SWFC SWFC None of Sta sper NCA2 construction CERTIFICATE CONTROL FOR  | Remarks  | SA312: SA182: SA   | O.154 3000# 3000# Welded to rade 304 etc.  State NC State NY   | None None None None None Reg. ne   | Smil & He AS   |
| 111.       | Supports: Skirt Yes  Remarks: All and some results of securities and carried by a certified by a | in 2 2 2 44(b)-1-(a) Med by R: Phil                                    | Are Made  All corporations of this report are  | Pipe SWFC SWFC None of Sta sper NCA2 construction CERTIFICATE CONTROL FOR  | Remarks  | SA312: SA182: SA   | 0.154 3000# 3000# Welded to rade 304 etc.  State NC NY   | None None None None None Reg. ne   | Smil & He AS   |
| 111.       | Supports: Skirt Yes Supports: Skirt Yes Per No. 2  The extreme from the state of th | in 2 2 2 44(b)-1-(a) Med by R: Phil                                    | Are Made  All Cres  ichard H.  Teperov  N-2936  er Indust  | PIDE SWFC SWFC None of Sta sper NA2 consisting minimum certificate cornect and   | Remarks  | SA312: SA182: SA   | O.154 3000# 3000# Welded to rade 304 etc.  State NC State NY   | None None None None None Reg. ne   | Smil & He Smil & |
| Ve Code    | Supporte: Skirt Yes Suppor | in 2 2 2 44(b)-1-(2 Fied by Ri Phil                                    | Are Made  All cress  ichard H. Teperov  N-2936  er Indust  | PIDE SWFC SWFC NONE Of Sta Sper NA2 OF OF ST | RETTRICES RETTRI | SA312: SA182: SA   | O.154 3000# 3000# Welded to rade 304 Frade 304 | Reg. no. Reg | 9781<br>0.05930<br>State or Province   |
| We code    | And the town of th | in 2 2 2 2 4(b)-1-(2 Phil  Tents made in 1. Son No. Name Am            | Are Made  Are Made  All core  ichard H. Teperov  N-2936  er Indust  N-2936  er Indust  N-2936  er Indust  N-2936   | PIDE SWFC SWFC NONE Of Sta Sper NA2 CERTIFICATE COMMON STA CERTIFICA | RETTACKS RET | SA312: SA182: SA   | O.154 3000# 3000# Welded to rade 304 etc.  State NC NY ntorms to the recompositions of the compositions of | Reg. no. Med. no. Med | Smil & He ASI 1999   |
| We Code    | Armon item.  Injet / Offet  Injet / Offet  Pelif Value & Dra  Abx. & Inst.  Supporta: Skirt Yes  Remarks: All  If every one has re-  generally that the system  s. Section III, Division  reficulty on the system  s. Section III, Division  reficulty of Authorizet  5 19 8  e undersigned Modelm  De Laware  Sence with the ASME   | in 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                               | Are Made  i chard H- Teperov  N-2936  er Indust  income to the ces  of the control of the control of the control of the control of the ces  of the control o | PIDE SWEC SWEC NODE OF STATE OF STATE CERTIFICATE CONTACT FINA CERTIFIC | RETTACKS RET | SA312: SA182: SA   | O.154 3000# 3000# 3000# Welded to irade 304 ir | Reg. no. Reg | 9781 05930  Fruction of the AS 1999  Fruction of the AS 1999  Fruction of the AS 1999  |
| We Code    | And the town of th | In 2  2  C22 Les  W(b)-1-(2)  Fed by R: Phili  Hents made in  Name Ami | Are Made  Legs  Are Made  All crec  Continued in this report are  N-2936  FINALS  AND COMM  N-2936  FINALS  COMM  N-2936  COMM  N-2936  FINALS  COMM  N-2936  COMM  N-2936  FINALS  COMM  N-2936  COM  N-2936  COMM  N-2936  C | PIDE SWFC SWFC None of Sta sper NCA2 sper NCA2 construct min certificate cornect and crial T cornect and certificate cornect a | RETTACKS RET | SA312: SA182: SA   | O.154 3000# 3000# 3000# Welded to irade 304 ir | Reg. no. Reg | 9781 05930  Fruction of the AS 1999  Fruction of the AS 1999  Fruction of the AS 1999  |

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### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required By The Provisions Of The ASME Code Section XI

| 1. | Owner Address:       | Duke Power Company  |                         |     | la. Da       | nte 06/29/98              |
|----|----------------------|---|-------------------------|-----|--------------|---------------------------|
|    |                      | 526 Church Street, Charlotte, NC 2820i-1906                     |                         |     | She          | eet 1 of 1                |
| 2. | Plant Address:       | Mcguire Nuclear Station   |                         |     |              |                           |
|    |                      | 12700 Hagers Ferry Road, Huntersville, NC 28078                 |                         |     |              |                           |
| 2a | Unit: 🛛 1 🔲 2        | 3 Shared (specify units)  |                         |     |              |                           |
| 3. | Work Performed B     | y: Duke Power Company   |                         | 3a. | Work Order # | 98057646                  |
|    | Address:             | 526 S. Church Street, Charlotte, NC 28201-1006                  |                         |     |              | Repair Organization Job # |
|    | Type Code Symbol     | Stamp: N/A Authorization No. N/A Expiration Date: N/A           |                         | 3b. | NSM or MM #  | MM-10378                  |
| 4. | (a) Identification o | f System: KC  | 4. (b) Class of System: | В   |              |                           |
| 5. | (a) Applicable Cor   | struction Code: ASME III 1971 Edition, Summer and Winter        | Addenda, N/A            |     | Code Cases   |                           |
|    | (b) Applicable Edi   | tion of Section XI Utilizing for Repairs or Replacements: 1989, | No Addenda              |     |              |                           |
| 6. | Identification of Co | imponents Repaired or Replaced and Replacement Components:      |                         |     |              |                           |

|   | Column 1          | Column 2     | Column 3        | Column 4           | Column 5             | Col. 6     | Column 7                              | Column 8                         |
|---|-------------------|--------------|-----------------|--------------------|----------------------|------------|---------------------------------------|----------------------------------|
|   | Name of Component | Name of Mfg. | Mfg. Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, or<br>Replacement | ASME Code<br>Stamped (yes or no) |
| A | 1-MCR-KC-0876     | DUKE POWER   | N/A             | N/A                | N/A                  | N/A        | □ Replaced,     □ Replacement         | ⊠ No  ☐ Yes                      |
| 3 |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
|   |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
|   |                   |              |                 |                    |                      |            | ☐ Repaired, ☐ Replaced, ☐ Replacement | □ No □ Yes                       |
| 6 |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |
| F |                   |              |                 |                    |                      |            | Repaired, Replaced, Replacement       | □ No □ Yes                       |

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in. (2) information in items 1 through 6 on this 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.

| . Description of                       | work: TRIMM  | ED CORNER OF  | TTEM                           | 1# 1 PER MM-10378  |  |  |
|--|--|---|--------------------------------|--|--|--|
| . Test Conducted                       | l: Hydrostatic 🗆   | Pneumatic   | Nom.                           | Operating Press.   | Other 🗆  | Exempt 🛭   |
|  | Pressure   | psig  |                                | Test Temp  | °F   |  |
|  | Pressure   | psig  |                                | Test Temp  |  |  |
|  | Pressure   | psig  |                                | Test Temp  | 297  |  |
| . Remarks :                            |  |   |                                |  |  |  |
|  |  |   |                                |  |  |  |
|  | (Applicat  | ble Manufacturer's De   | ata Reco                       | ords to be attached)   |  |  |
| Certificate of A                       | thol Stamp N/A uthorization No. N.  Sorrow Exec. Sup Owner or Own  | 111   | wu                             |  | on Date N/   | <u>A</u><br>9 98   |
| Vessel Inspecto of Hartford Con period | ed, holding a valid of a sand the State or Innecticut have inspected to the saminations of the requirements of certificate neither the ing the examination of the the Inspector of the samination of the the Inspector of the samination of the samina | commission issue<br>Providence of Non-<br>cted the compone<br>(a); and state to<br>s and taken correct<br>of ASME Code, So<br>the Inspector nor hours and corrective<br>thor his employer | that to be tive meetion is emp | CE INSPECTION ne National Board of solina and employed be scribed in this Owner the best of my knowleasures described in XI. lloyer makes any war ares described in the Oe e liable in any manne nnected with this ins | Boiler and I<br>by HSBI and<br>'s Report di<br>edge and be<br>this Owner'<br>ranty, expre<br>Owner's Re<br>er for any pe | d I Company<br>uring the<br>lief, the<br>s Report in<br>ssed or<br>port. |
| R. D. Klein - Inspect                  | or's Signature   | Commis  | ssions                         | NB7728, NC853,<br>National Board, State, I   | an expension of the same and the spines  | Endorsement  |

### 11.0 Pressure Testing

There are three refueling outages scheduled for the second period of the second inspection interval for Duke Energy's McGuire Nuclear Station Unit 1. This section describes Pressure Tests performed for the second period through the 1998 refueling outage (also referred to as EOC-12).

| Examination<br>Category                   | Test Requirement                                  | Total<br>Examinations<br>Required For<br>This Period | Total<br>Examinations<br>Credited For<br>This Period | (%) Examinations Complete For This Period |
|---|---|--|--|---|
| B-E                                       | System Hydrostatic<br>Test (IWB-5222)             | 0  | 0  | 0%  |
|   |   |  |  |   |
| В-Р                                       | System Leakage Test<br>(IWB-5221)                 | 3  | 3  | 100%                                      |
| В-Р                                       | B-P System Hydrostatic<br>Test (IWB-5222)         |  | 0  | 0%  |
| North College September 2019              |   |  |  |   |
| С-Н                                       | System<br>Inservice/Functional<br>Test (IWC-5221) | 47   | 47   | 100%                                      |
| C-H System Hydrostatic<br>Test (IWC-5222) |   | 0  | 0  | 0%  |

A detailed description of each Examination Category examined during EOC-12 is located in subsection 11.1 of this report. Results of each Examination Category examined during EOC-12 are located in subsection 11.2 of this report. A detailed description of each Examination Category examined during the second inspection period is located in subsection 11.3 of this report. Results of each Examination Category examined during the second inspection period are located in subsection 11.4 of this report.

### 11.1 Required Examinations This Outage:

A listing of each VT-2 Visual Examination required for EOC-12 is included in this section.

The information shown below is a field description for the listing format included in this section of the report:

Item No. = ASME Section XI Tables IWB-2500-1 (Class 1),

IWC-2500-1 (Class 2), and IWD-2500-1 (Class 3)

Flow Drawing = Detail Drawing of Inspection Boundary

Required Test = Type of Pressure Test

System Name = Name of Pressure Retaining Component System

Required Inspection = Type of Visual Examination Required

Required Procedure = Required Inspection Procedure

Comments = General and/or Detail Description

### Outage 12

| item Number | Flow<br>Drawing | Required<br>Test | System Name | Required<br>Inspection | Required<br>Procedure | Comments                        |
|-------------|-----------------|------------------|-------------|------------------------|-----------------------|---------------------------------|
| B15.050.001 | SEE COMMENTS    | LEAK             | NC SYSTEM   | VT-2                   | QAL-15                | Class A Leakage Boundary Dwgs:  |
|             |                 |                  |             |                        |                       | MCL-1553-1.0/2, MCL-1553-2.0/2, |
|             |                 |                  |             |                        |                       | MCL-1553-2.1/5, MCL-1554-1.0/3, |
|             |                 |                  |             |                        |                       | MCL-1554-1.1/3, MCL-1554-1.2/5, |
|             |                 |                  |             |                        |                       | MCL-1561-1.0/5, MCL-1562-1.0/3, |
|             |                 |                  |             |                        |                       | MCL-1562-2.0/4, MCL-1562-2.1/4, |
|             |                 |                  |             |                        |                       | MCL-1562-3.0/5, MCL-1562-3.1/4  |

### Outage 12

| Item Number | Flow<br>Drawing | Required<br>Test | System Name | Required<br>Inspection | Required<br>Procedure | Comments   |
|-------------|-----------------|------------------|-------------|------------------------|-----------------------|--|
| C07.030.008 | MC-1562-3.1     | INS/FUN          | NI SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-278, M-302, M-306, M-336 and M-352 - 2nd Period Station Pkg. Nos: #19, #19A, #22, #50, #39   |
| C07.030.013 | MC-1553-4.0     | INSER            | CSYSTEM     | VT-2                   | QAL-15                | Class B penetrations M-326 and M-361 (reference PIP# 1-M94-1348 and Request For Relief # 94-GO-002 for 1st period penetration testing).                  |
| C07.030.017 | MC-1554-1.3     | FUNCT            | NV SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-342 - Station Pkg.#17  |
| C07.030.018 | MC-1556-3.0     | INSER            | NB SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-259  |
| C07.030.019 | MC-1558-4.0     | INS/FUN          | NF SYSTEM   | VT-2                   | QAL-15                | Ref. Req. for Rel.#94-MN-006 for peri. M-372 & M-373; Ref. Req. for Rel.#94-GO-002 & PIP#1-M94-1348 for 1st per. testing of pen. M-383, M-394 and M-395. |
| C07.030.022 | MC-1565-1.0     | INSER            | WL SYSTEM   | VT-2                   | QAL-15                | Reference Req. for Rel.#94-GO-002 and PIP#1-M94-1348 for 1st period testing of penetration M-3/9 but not penetration M-374.                              |
| C07.030.024 | MC-1565-7.0     | INSER            | WL SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-221  |
| C07.030.029 | MCFD-1573-04.00 | INSER            | KC SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-322  |
| C07.030.038 | MC-1599-2.2     | INSER            | RF SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-353  |
| C07.030.039 | MC-1601-2.4     | INSER            | YM SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-337  |
| C07.030.041 | MC-1605-1.2     | INSER            | VI SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-317 and M-386   |
| C07.030.042 | MC-1605-1.3     | INSER            | VI SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-220 and M-359   |
| C07.030.043 | MC-1605-1.14    | INSER            | VI SYSTEM   | VT-2                   | QAL-15                | Class B penetrations for instrument air system   |
|             |                 |                  |             |                        |                       |  |

Date: 09/09/98

### Outage 12

| Item Number | Flow<br>Drawing | Required<br>Test | System Name | Required<br>Inspection | Required Procedure | Commerits                 |  |
|-------------|-----------------|------------------|-------------|------------------------|--------------------|---------------------------|--|
|             |                 |                  |             |                        |                    | (no penetration number)   |  |
| C07.030.044 | MC-1605-1.17    | INSER            | VI SYSTEM   | VT-2                   | QAL-15             |                           |  |
| C07.030.045 | MC-1605-3.1     | INSER            | VB SYSTEM   | VT-2                   | QAL-15             | Class B penetration M-215 |  |
| C07.030.046 | MC-1617-1.0     | INSER            | YA SYSTEM   | VT-2                   | QAL-15             | Station Pkg.#32, #43      |  |
| C07.030.047 | MC-1605-2.2     | INSER            | VS SYSTEM   | VT-2                   | QAL-15             | Class B penetration M-219 |  |
|             |                 |                  |             |                        |                    |                           |  |

### Outage 12

| Item Number | Flow<br>Drawing | Required<br>Test | System Name | Required<br>Inspection | Required<br>Procedure | Comments                                       |
|-------------|-----------------|------------------|-------------|------------------------|-----------------------|--|
| D02.011.011 | MCFD-1592-01.00 | FUNCT            | CA SYSTEM   | VT-2                   | QAL-15                | Station Test Zone #54, #55, #56, #57, #58, #59 |

### 11.2 Examination Results For This Outage:

The results of each VT-2 Visual Examination required for EOC-12 are included in this section.

The information shown below is a field description for the listing format included in this section of the report:

Item Number = ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), and IWD-2500-1 (Class 3)

Flow D. ving = Detail Drawing of Inspection Boundary

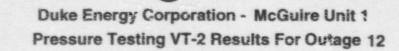
Required Test = Type of Pressure Test

Test Status = Complete, Partial, Not Tested, or Not Required

Test Result Clear (No Evidence Of Leakage), Recordable (Evidence Of Leakage - Not Through Wall such as packing leak), Reportable (Evidence Of Through Wall Leakage).

VT-2 Date = VT-2 Examination Date

Comments = General and/or Detail Description



| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments                        |
|-------------|-----------------|------------------|-------------|-------------|-----------|---------------------------------|
| 815.050.001 | SEE COMMENTS    | LEAK             | COMPLETE    | CLEAR       | 06/30/98  | Class A Leakage Boundary Dwgs:  |
|             |                 |                  |             |             |           | MCL-1553-1.0/2, MCL-1553-2.0/2, |
|             |                 |                  |             |             |           | MCL-1553-2.1/5, MCL-1554-1.0/3, |
|             |                 |                  |             |             |           | MCL-1554-1.1/3, MCL-1554-1.2/5, |
|             |                 |                  |             |             |           | MCL-1561-1.0/5, MCL-1562-1.0/3, |
|             |                 |                  |             |             |           | MCL-1562-2.0/4, MCL-1562-2.1/4, |
|             |                 |                  |             |             |           | MCL-1562-3.0/5, MCL-1562-3.1/4  |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments  |
|-------------|-----------------|------------------|-------------|-------------|-----------|---|
| C07.030.008 | MC-1562-3.1     | INS/FUN          | COMPLETE    | CLEAR       | 06/03/98  | Class B penetration M-278, M-302, M-306, M-336 and M-352 - 2nd Period Station Pkg. Nos: #19, #19A, #2≥, #50, #39  |
| C07.030.013 | MC-1553-4.0     | INSER            | COMPLETE    | CLEAR       | 06/02/98  | Class B penetrations M-326 and M-361<br>(reference PIP# 1-M94-1348 and Request<br>For Relief # 94-GO-002 for 1st period<br>penetration testing).        |
| C07.030.017 | MC-1554-1.3     | FUNCT            | COMPLETE    | CLEAR       | 06/11/98  | Class B penetration M-342 - Station Pkg.#17   |
| C07.030.018 | MC-1556-3.0     | INSER            | COMPLETE    | CLEAR       | 06/14/98  | Class B penetration M-259   |
| C07.030.019 | MC-1558-4.0     | INS/FUN          | COMPLETE    | CLEAR       | 06/23/98  | Ref. Req. for Rel.#94-MN-006 for pen. M-372 & M-373; Ref. Req. for Rel.#94-GO-002 & PIP#1-M94-1348 for 1st per. testing of pen. M-383, M-394 and M-395. |
| C07.030.022 | MC-1565-1.0     | INSER            | COMPLETE    | CLEAR       | 06/10/98  | Reference Req. for Rel.#94-GO-002 and PIP#1-M94-1348 for 1st period testing of penetration M-348 but not penetration M-374.                             |
| C07.030.024 | MC-1565-7.0     | INSER            | COMPLETE    | CLEAR       | 06/25/98  | Class B penetration M-221   |
| C07.030.029 | MCFD-1573-04.00 | INSER            | COMPLETE    | CLEAR       | 06/09/98  | Class B penetration M-322   |
| C07.030.038 | MC-1599-2.2     | INSER            | COMPLETE    | CLEAR       | 06/12/98  | Class B penetration M-353   |
| C07.036.039 | MC-1601-2.4     | INSER            | COMPLETE    | CLEAR       | 06/05/98  | Class B penetration M-337   |
| C07.030.041 | MC-1605-1.2     | INSER            | COMPLETE    | CLEAR       | 06/25/98  | Class B penetrations M-317 and M-386  |
| C07.030.042 | MC-1605-1.3     | INSER            | COMPLETE    | CLEAR       | 06/03/98  | Class B penetrations M-220 and M-359  |
| C07.030.043 | MC-1605-1.14    | INSER            | COMPLETE    | CLEAR       | 06/25/98  | Class B penetrations for instrument air   |
|             |                 |                  |             |             |           |   |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments                       |  |
|-------------|-----------------|------------------|-------------|-------------|-----------|--------------------------------|--|
| C07.030.044 | MC-1605-1.17    | INSER            | COMPLETE    | CLEAR       | 06/03/98  | system (no penetration number) |  |
| C07.030.045 | MC-1605-3.1     | INSER            | COMPLETE    | CLEAR       | 06/01/98  | Class B penetration M-215      |  |
| C07.030.046 | MC-1617-1.0     | INSER            | COMPLETE    | CLEAR       | 06/27/98  | Station Pkg.#32, #43           |  |
| C07.030.047 | MC-1605-2.2     | INSER            | COMPLETE    | CLEAR       | 06/10/98  | Class B penetration M-219      |  |

| Itera Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments                                       |
|--------------|-----------------|------------------|-------------|-------------|-----------|--|
| D02.011.011  | MCFD-1592-01.00 | FUNCT            | COMPLETE    | CLEAR       | 09/04/97  | Station Test Zone #54, #55, #56, #57, #58, #59 |

### 11.3 Required Examinations For Second Inspection Period:

A listing of each VT-2 Visual Examination required for the Second Inspection Period is included in this section.

The information shown below is a field description for the listing format included in this section of the report:

Item No. = ASME Section XI Tables IWB-2500-1 (Class 1),

IWC-2500-1 (Class 2), and IWD-2500-1 (Class 3)

Flow Drawing = Detail Drawing of Inspection Boundary

Required Test = Type of Pressure Test

System Name = Name of Pressure Retaining Component System

Required Inspection = Type of Visual Examination Required

Required Procedure = Required Inspection Procedure

Comments = General and/or Detail Description

| Item Number | Flow<br>Drawing | Required Test | System Name | Required<br>Inspection | Required<br>Procedure | Comments  |
|-------------|-----------------|---------------|-------------|------------------------|-----------------------|---|
| B15.050.001 | SEE COMMENTS    | LEAK          | NC SYSTEM   | VT-2                   | QAL-15                | Class A Leakage Boundary Dwgs: MCL-1553-1.0/2, MCL-1553-2.0/2, MCL-1553-2.1/5, MCL-1554-1.0/3, MCL-1554-1.1/3, MCL-1554-1.2/5, MCL-1561-1.0/5, MCL-1562-1.0/3, MCL-1562-2.0/4, MCL-1562-2.1/4, MCL-1562-3.0/5, MCL-1562-3.1/4 |
| C07.030.001 | MC-1554-2.0     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Station Pkg. Nos: #16   |
| C07.030.002 | MC-1554-3.0     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Test Pkgs: #16, #27, #5   |
| C07.030.003 | MC-1554-3.1     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Test Pkg Nos: #16, #27, #51   |
| C07.030.004 | MC-1554-5.0     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Station Pkg. #16  |
| C07.030.005 | MCFD-1561-01.00 | INS/FUN       | ND SYSTEM   | Vi                     | QAL-15                | VT-2 Examination of C02.033.001 and C02.033.002 Telltale<br>Hole also required - 2nd period test pkgs: #16, #27, #19,<br>#19A, #19A-1, #50  |
| CC7.030.006 | MC-1562-1.0     | INSER         | NI SYSTEM   | VT-2                   | QAL-15                | Station Pkg. #16  |
| C07.030.007 | MC-1562-3.0     | INS/FUN       | NI SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-277, M-316 and M-319 - 2nd Period<br>Station Pkg. Nos: #16, #19A, #22, #27, #53, #69.   |
| C07.030.008 | MC-1562-3.1     | INS/FUN       | NI SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-278, M-302, M-306, M-336 and M-352 - 2nd Period Station Pkg. Nos: #19, #19A, #22, #50, #39  |
| C07.030.009 | MC-1563-1.0     | INS/FUN       | NS SYSTEM   | VT-2                   | QAL-15                | VT-2 Examination of C02.033.005 and C02.033.006 Telltale<br>Hole also required - Station Pkg. Nos: #19, #19A, #23, #24,<br>#27, #50   |
| C07.030.010 | MCFD-1571-01.00 | INSER         | FW SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-358 and M-377 Station Pkg. Nos: #19, #26, #27  |
| C07.030.011 | MC-1572-1.0     | INSER         | NM SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-235 and M-309 - Station Pkg.#19, #19A, #41   |
|             |                 |               |             |                        |                       |   |

| Item Number | Flow<br>Drawing | Required Test | System Name | Required<br>Inspection | Required<br>Procedure | Comments  |
|-------------|-----------------|---------------|-------------|------------------------|-----------------------|---|
| C07.030.012 | MC-1553-2.1     | INSER         | NC SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-212 & M-274. Reference<br>PIP#1-M94-1348 and Request For Relief # 94-GO-002 for 1st<br>period testing of penetration M-216. Second Period Station<br>Pkg.#44 |
| C07.030.013 | MC-1553-4.0     | INSER         | NC SYSTEM   | VT-2                   | QAL-15                | Class 8 penetrations M-326 and M-361 (reference PIP# 1-M94-1348 and Request For Relief # 94-GO-002 for 1st period penetration testing).   |
| C07.030.014 | MC-1554-1.0     | INSER         | NV SYSTEM   | VT 2                   | QAL-15                | Class B penetrations M-339 and M-350 Station Pkg. Nos: #16, #17   |
| C07.030.015 | MC-1554-1.1     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-256, M-343 and M-344 - Station Pkg. Nos: #16, #17, #63   |
| C07.030.016 | MC-1554-1.2     | INS/FUN       | NV SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-228, M-329 and M-347 - Station Pkg. Nos: #16, #17, #13, #19, #20   |
| C07.030.017 | MC-1554-1.3     | FUNCT         | NV SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-342 - Station Pkg.#17   |
| C07.030.018 | MC-1556-3.0     | INSER         | NB SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-259   |
| C07.030.019 | MC-1558-4.0     | INS/FUN       | NF SYSTEM   | VT-2                   | QAL-15                | Ref. Req. for Rel.#94-MN-006 for pen. M-372 & M-373; Ref. Req. for Rel.#94-GO-002 & PIP#1-M94-1348 for 1st per. testing of pen. M-383, M-394 and M-395.                             |
| C07.030.020 | MC-1562-2.0     | INSER         | NI SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-330. Test Pkg. #21  |
| C07.030.021 | MC-1562-2.1     | INS/FUN       | NI SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-321. Test Pkg.#21, #60.   |
| C07.030.022 | MC-1565-1.0     | INSER         | WL SYSTEM   | VT-2                   | QAL-15                | Reference Req. for Rel.#94-GC-002 and PIP#1-M94-1348 for 1st period testing of penetration M-348 but not penetration M-374.   |
| C07.030.023 | MC-1565-1.1     | INSER         | WL SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-360 and M-375 - Station Pkg.#5  |

| Item Number | Flow<br>Drawing | Required Test | System Name    | Required<br>Inspection | Required<br>Procedure | Cc mments  |
|-------------|-----------------|---------------|----------------|------------------------|-----------------------|--|
| C07.030.024 | MC-1565-7.0     | INSER         | WL SYSTEM      | VT-2                   | QAL-15                | Class B penetration M-221  |
| C07.030.025 | MC-1568-1.0     | INSER         | WE SYSTEM      | VT-2                   | QAL-15                | Reference Req. for Rel.#94-GO-002 and PIP#1-M94-1348 for penetration M-356.        |
| C07.030.026 | MC-1572-1.1     | INSER         | NM SYSTEM      | VT-2                   | QAL-15                | Class B penetration M-280. Test Pkg. #21.  |
| C07.030.027 | MC-1572-3.0     | INSER         | NM SYSTEM      | VT-2                   | QAL-15                | Class B penetrations M-335, M-338, M-340 and M-341 - Station Pkg.#6                |
| C07.030.028 | MCFD-1573-03.01 | INSER         | KC SYSTEM      | VT-2                   | QAL-15                | Class B penetrations M-217, M-218, M-320, M-327, M-355 and M-376 - Station Pkg.#19 |
| C07.030.029 | MCFD-1573-04.00 | INSER         | KC SYSTEM      | VT-2                   | QAL-15                | Class B penetration M-322  |
| C07.030.030 | MC-1574-4.0     | FUNCT         | RN SYSTEM      | VT-2                   | QAL-15                | Class B penetration M-307 and M-315 - Station Pkg.#4                               |
| C07.030.031 | MCFD-1580-01.00 | INSER         | BB SYSTEM      | VT-2                   | QAL-15                | Class B penetration M-300, M-301, M-303 and M-304 - Station Pkg.#6                 |
| C07.030.032 | MC-1584-1.0     | INSER         | BW SYSTEM      | VT-2                   | QAL-15                | Station Pkg.#32  |
| C07.030.033 | MCFD-1591-01.01 | INSER         | CF SYSTEM      | VT-2                   | QAL-15                | Class B penetrations M-153, M-262, M-308 and M-440 -<br>Station Pkg.#6, #32        |
| C07.030.034 | MCFD-1592-01.00 | INSER         | CA SYSTEM      | VT-2                   | QAL-15                | Class B penetrations M-156, M-286, M-465 and M-3100 - Station Pkg.#6, #32          |
| C07.030.035 | MCFD-1593-01.00 | INSER         | SM / SV SYSTEM | VT-2                   | QAL-15                | Class B penetrations M-154 and M-261 - Station Pkg.#6                              |
| C07.030.036 | MCFD-1593-01.02 | INSER         | SA / TE SYSTEM | VT-2                   | QAL-15                | Station Test Zone #35  |
| C07037      | MCFD-1593-01.03 | INSER         | SM / SV SYSTEM | VT-2                   | QAL-15                | Class B penetrations M-393 and M-441 - Station Pkg.#6                              |
| C07.030.038 | MC-1599-2.2     | INSER         | RF SYSTEM      | VT-2                   | QAL-15                | Class B penetration M-353  |

| Item Number | Flow<br>Drawing | Required Test | System Name | Required<br>Inspection | Required<br>Procedure | Comments  |
|-------------|-----------------|---------------|-------------|------------------------|-----------------------|---|
| C07.030.039 | MC-1601-2.4     | INSER         | YM SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-337   |
| C07.030.040 | MC-1604-3.0     | INSER         | RV SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-240, M-279, M-385 and M-390 - Station Pkg.#2     |
| C07.030.041 | MC-1605-1.2     | INSER         | VI SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-317 and M-386                                    |
| C07.030.042 | MC-1605-1.3     | INSER         | VI SYSTEM   | VT-2                   | QAL-15                | Class B penetrations M-220 and M-359                                    |
| C07.030.043 | MC-1605-1.14    | INSER         | VI SYSTEM   | VT-2                   | QAL 15                | Class B perietrations for instrument air system (no penetration number) |
| C07.030.044 | MC-1605-1.17    | INSER         | VI SYSTEM   | Vî-2                   | QAL-15                |   |
| C07.030.045 | MC-1605-3.1     | INSER         | VB SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-215   |
| C07.030.046 | MC-1617-1.0     | INSER         | YA SYSTEM   | VT-2                   | QAL-15                | Station Pkg.#32, #43  |
| C07.030.047 | MC-1605-2.2     | INSER         | VS SYSTEM   | VT-2                   | QAL-15                | Class B penetration M-219   |
| D01.011.002 | MC-1554-2.0     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Station Pkg. No: #16  |
| D01.011.003 | MC-1554-3.1     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Station Pkg. Nos: #16   |
| D01.011.004 | MC-1554-5.0     | INSER         | NV SYSTEM   | VT-2                   | QAL-15                | Station Pkg. #16  |
| D02.011.001 | MCFD-1573-01.00 | FUNCT         | KC SYSTEM   | VT-2                   | QAL-15                | Station Pkg. Nos: #28, #29  |
| D02.011.002 | MCFD-1573-01.01 | FUNCT         | KC SYSTEM   | VT-2                   | QAL-15                | Station Pkg. Nos: #28, #29, #30, #31                                    |
| D02.011.004 | MC-1574-1.0     | FUNCT         | RN SYSTEM   | VT-2                   | QAL-15                | Station Pkg.#30, #31  |
| D02.011.005 | MC-1574-1.1     | FUNCT         | RN SYSTEM   | VT-2                   | QAL-15                |   |
| D02.011.006 | MC-1574-2.0     | FUNCT         | RN SYSTEM   | VT-2                   | QAL-15                | Station Pkg.#30   |
| D02.011.007 | MC-1574-2.1     | FUNCT         | RN SYSTEM   | VT-2                   | QAL-15                |   |
|             |                 |               |             |                        |                       |   |

| item Number | Flow<br>Drawing | Required Test | System Name  | Required<br>Inspection | Required<br>Precedure | Comments  |
|-------------|-----------------|---------------|--------------|------------------------|-----------------------|---|
| D02.011.008 | MCFD-1574-03.00 | FUNCT         | RN SYSTEM    | VT-2                   | QAL-15                | Station Pkg.#31, #38B   |
| D02.011.009 | MCFD-1574-03.01 | FUNCT         | RN SYSTEM    | VT-2                   | QAL-15                | STN. PKG.#61, #31   |
| D02.011.010 | MC-1574-4.0     | FUNCT         | RN SYSTEM    | VT-2                   | QAL-15                | Station Pkg.#30   |
| D02.011.011 | MCFD-1592-01.00 | FUNCT         | CA SYSTEM    | VT-2                   | QAL-15                | Station Test Zone #54, #55, #56, #57, #58, #59                                |
| D02.011.012 | MCFD-1592-01.01 | FUNCT         | CA SYSTEM    | VT-2                   | QAL-15                | 2nd Period Station Pkg. Nos: #30, #33, #34, #38A, #38B, #54, #55, #56 #62     |
| D02.011.013 | MCFD-1593-01.02 | FUNCT         | SA/TE SYSTEM | VT-2                   | QAL-15                | Station Test Zone #35   |
| D02.011.014 | MC-1604-3.0     | FUNCT         | RV SYSTEM    | VT-2                   | QAL-15                | Station Pkg.#30   |
| D02.011.015 | MCFD-1609-01.00 | FUNCT         | KD SYSTEM    | VT-2                   | QAL-15                | 2nd Period Station Pkg. Nos: #15, #30   |
| D02.011.016 | MCFD-1609-01.01 | FUNCT         | KD SYSTEM    | VT-2                   | QAL-15                | 2nd Period Test Pkgs: #14, #31  |
| D02.011.017 | MCFD-1609-02.00 | FUNCT         | LD SYSTEM    | VT-2                   | QAL-15                | 2nd Period Station Pkg. Nos: #9, #11  |
| D02.011.018 | MCFD-1609-02.01 | FUNCT         | LD SYSTEM    | VT-2                   | QAL-15                | 2nd Pe:iod Test Pkgs: #1, #10   |
| D02.011.019 | MCFD-1609-03.00 | FUNCT         | FD SYSTEM    | VT-2                   | QAL-15                | This test is required for periods 1, 2 and 3. 2nd Period Station Pkg. Nos: #7 |
| D02.011.020 | MCFD-1609-03.01 | FUNCT         | FD SYSTEM    | VT-2                   | QAL-15                | This test is required for periods 1, 2 and 3 - Stm. Pkg.# 8                   |
| D02.011.021 | MCFD-1609-04.00 | FUNCT         | VG SYSTEM    | VT-2                   | QAL-15                | 2nd Period Station Pkg. Nos: #12, #13   |
| D02.011.022 | MC-2574-1.1     | FUNCT         | RN SYSTEM    | VT-2                   | QAL-15                | Station Pkg.#30, #31  |
| D02.011.023 | MC-2574-3.0     | FUNCT         | RN SYSTEM    | VT-2                   | QAL-15                | Station Pkg.#31   |
| D02.011.024 | MC-2574-4.0     | FUNCT         | RN SYSTEM    | VT-2                   | QAL-15                |   |
| D02.011.025 | MC-2604-3.0     | FUNCT         | RV SYSTEM    | VT-2                   | QAL-15                |   |

| Item Number | Flow<br>Drawing | Required Test | System Name | Required Inspection | Required<br>Procedure | Comments   |
|-------------|-----------------|---------------|-------------|---------------------|-----------------------|--|
| D02.011.026 | MC-1581-1.0     | FUNCT         | WZ SYSTEM   | VT-2                | QAL-15                | Station Pkg.#42, #47, #48  |
| D02.012.027 | MCFD-1609-03.00 | HYDRO         | FD SYSTEM   | VT-2                | QAL-15                | This test is required for periods 2 and 3 - 2nd Period Station Pkg.#7  |
| D02.012.028 | MCFD-1609-03.01 | HYDRO         | FD SYSTEM   | VT-2                | QAL-15                | This test is required for periods 2 and 3 - 2nd Period Station Pkg. #8 |
| D03.011.001 | MC-1570-1.0     | INSER         | KF SYSTEM   | VT-2                | QAL-15                | 2nd Period Station Pkg. Nos: #25, #52                                  |

### 11.4 Examination Results For Second Inspection Period:

The results of each VT-2 Visual Examination required for the Second Inspection Period are included in this section.

The information shown below is a field description for the listing format included in this section of the report:

Item Number = ASME Section XI Tables IWB-2500-1 (Class 1), IWC-

2500-1 (Class 2), and IWD-2500-1 (Class 3)

Flow Drawing = Detail Drawing of Inspection Boundary

Required Test = Type of Pressure Test

Test Status = Complete, Partial, Not Tested, or Not Required

Test Result = Clear (No Evidence Of Leakage), Reportable (Evidence Of Leakage - Not Through Wall such as packing leak), Reportable (Evidence Of Through Wall

Leakage).

VT-2 Date = VT-2 Examination Date

Comments = General and/or Detail Description

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments  |
|-------------|-----------------|------------------|-------------|-------------|-----------|---|
| B15.050.001 | SEE COMMENTS    | LEAK             | COMPLETE    | CLEAR       | 06/30/98  | Class A Leakage Boundary Dwgs: MCL-1553-1.0/2, MCL-1553-2.0/2, MCL-1553-2.1/5, MCL-1554-1.0/3, MCL-1554-1.1/3, MCL-1554-1.2/5, MCL-1561-1.0/5, MCL-1562-1.0/3, MCL-1562-2.0/4, MCL-1562-2.1/4, MCL-1562-3.0/5, MCL-1562-3.1/4 |
| C07.030.001 | MC-1554-2.0     | INSER            | COMPLETE    | CLEAR       | 09/19/95  | Station Pkg. Nos: #16   |
| C07.030.002 | MC-1554-3.0     | INSER            | COMPLETE    | CLEAR       | 07/03/96  | Test Pkgs: #16, #27, #45  |
| C07.030.003 | MC-1554-3.1     | INSER            | COMPLETE    | CLEAR       | 11/06/95  | Test Pkg Nos: #16, #27, #51   |
| C07.030.004 | MC-1554-5.0     | INSER            | COMPLETE    | CLEAR       | 09/19/95  | Station Pkg. #16  |
| C07.030.005 | MCFD-1561-01.00 | INS/FUN          | COMPLETE    | RECORDABLE  | 05/01/97  | VT-2 Examination of C02.033.001 and C02.033.002 Telltale Hole also required - 2nd period test pkgs: #16, #27, #19, #19A, #19A-1, #50  |
| C07.030.006 | MC-1562-1.0     | INSER            | COMPLETE    | CLEAR       | 09/19/95  | Station Pkg. #16  |
| C07.030.007 | MC-1562-3.0     | INS/FUN          | COMPLETE    | CLEAR       | 05/08/97  | Class B penetration M-277, M-316 and M-319 - 2nd Period Station Pkg. Nos: #16, #19A, #22, #27, #53, #60.  |
| C07.030.008 | MC-1562-3.1     | INS/FUN          | COMPLETE    | CLEAR       | 06/03/98  | Class B penetration M-278, M-302, M-306, M-336 and M-352 - 2nd Period Station Pkg. Nos: #19, #19A, #22, #50, #39  |
| C07.030.009 | MC-1563-1.0     | INS/FUN          | COMPLETE    | CLEAR       | 02/19/97  | VT-2 Examination of C02.033.005 and C02.033.006 Telltale Hole also required - Station Pkg. Nos: #19, #19A, #23, #24, #27,   |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Commen*s #50  |
|-------------|-----------------|------------------|-------------|-------------|-----------|---|
| C07.030.010 | MCFD-1571-01.00 | INSER            | COMPLETE    | CLEAR       | 01/17/95  | Class B penetrations M-358 and M-377 Station<br>Pkg. Nos: #19, #26, #27   |
| C07.030.011 | MC-1572-1.0     | INSER            | COMPLETE    | CLEAR       | 02/19/97  | Class B penetrations M-235 and M-309 - Station Pkg.#19, #19A, #41   |
| C07.030.012 | MC-1553-2.1     | INSER            | COMPLETE    | CLEAR       | 12/17/95  | Class B penetrations M-212 & M-274.  Reference PIP#1-M94-1348 and Request For Relief # 94-GO-002 for 1st period testing of penetration M-216. Second Period Station Pkg.#44 |
| C07.030.013 | MC-1553-4.0     | INSER            | COMPLETE    | CLEAR       | 06/02/98  | Class B penetrations M-326 and M-361<br>(reference PIP# 1-M94-1348 and Request For<br>Relief # 94-GO-002 for 1st period penetration<br>testing).                            |
| C07.030.014 | MC-1554-1.0     | INSER            | COMPLETE    | RECORDABLE  | 01/22/96  | Class B penetrations M-339 and M-350 Station Pkg. Nos: #16, #17   |
| C07.030.015 | MC-1554-1.1     | INSER            | COMPLETE    | CLEAR       | 05/08/97  | Class B penetrations M-256, M-343 and M-344 - Station Pkg. Nos: #16, #17, #63   |
| C07.030.016 | MC-1554-1.2     | INS/FUN          | COMPLETE    | CLEAR       | 01/23/96  | Class B penetrations M-228, M-329 and M-347 -<br>Station Pkg. Nos: #16, #17, #18, #19, #20  |
| C07.030.017 | MC-1554-1.3     | FUNCT            | COMPLETE    | LEAR        | 06/11/98  | Class B penetration M-342 - Station Pkg.#17   |
| C07.030.018 | MC-1556-3.0     | INSER            | COMPLETE    | CLEAR       | 06/14/98  | Class B penetration M-259   |
| C07.030.019 | MC-1558-4.0     | INS/FUN          | COMPLETE    | CLEAR       | 06/23/98  | Ref. Req. # Rel.#94-MN-006 for pen. M-372 & M-373; Rel. rieq. for Rel.#94-GO-002 & PIP#1-M94-1348 for 1st per. testing of pen.  |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments  |
|-------------|-----------------|------------------|-------------|-------------|-----------|---|
|             |                 |                  |             |             |           | M-383, M-394 and M-395.   |
| C07.030.020 | MC-1562-2.0     | INSER            | COMPLETE    | CLEAR       | 05/10/97  | Class B penetration M-330. Test Pkg. #21  |
| C07.030.021 | MC-1562-2.1     | INS/FUN          | COMPLETE    | CLEAR       | 05/10/97  | Class B penetration M-321. Test Pkg.#21, #60.   |
| C07.030.022 | MC-1565-1.0     | INSER            | COMPLETE    | CLEAR       | 06/10/98  | Reference Req. for Rel.#94-GO-002 and PIP#1-M94-1348 for 1st period testing of penetration M-348 but not penetration M-374. |
| C07.030.023 | MC-1565-1.1     | INSER            | COMPLETE    | CLEAR       | 12/17/95  | Class B penetration M-360 and M-375 - Station Pkg.#5  |
| C07.030.024 | MC-1565-7.0     | INSER            | COMPLETE    | CLEAR       | 06/25/98  | Class B penetration M-221   |
| C07.030.025 | MC-1568-1.0     | INSER            | COMPLETE    | CLEAR       | 05/07/97  | Reference Req. for Rel.#94-GO-002 and PIP#1-M94-1348 for penetration M-356.   |
| CJ7.030.026 | MC-1572-1.1     | INSER            | COMPLETE    | CLEAR       | 05/10/97  | Class B penetration M-280. Test Pkg. #21.   |
| C07.030.027 | MC-1572-3.0     | INSER            | COMPLETE    | CLEAR       | 01/23/96  | Class B penetrations M-335, M-338, M-340 and M-341 - Station Pkg.#6   |
| C07.030.028 | MCFD-1573-03 01 | INSER            | COMPLETE    | CLEAR       | 01/20/96  | Class B penetrations M-217, M-218, M-320, M-327, M-355 and M-376 - Station Pkg.#19  |
| C07.030.029 | MCFD-1573-04.00 | INSER            | COMPLETE    | CLEAR       | 06/09/98  | Class B penetration M-322   |
| C07.030.030 | MC-1574-4.0     | FUNCT            | COMPLETE    | CLEAR       | 01/20/96  | Class B penetration M-307 and M-315 - Station Pkg.#4  |
| C07.030.031 | MCFD-1580-01.00 | INSER            | COMPLETE    | CLEAR       | 01/23/96  | Class B penetration M-300, M-301, M-303 and M-304 - Station Pkg.#6  |
| C07.030.032 | MC-1584-1.0     | INSER            | COMPLETE    | CLEAR       | 05/20/96  | Station Pkg.#32   |
| C07.030.033 | MCFD-1591-01.01 | INSER            | COMPLETE    | CLEAR       | 05/20/96  | Class B penetrations M-153, M-262, M-308 and M-440 - Station Pkg.#6, #32  |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments  |
|-------------|-----------------|------------------|-------------|-------------|-----------|---|
| C07.030.034 | MCFD-1592-01.00 | INSER            | COMPLETE    | CLEAR       | 05/20/96  | Class B penetrations M-156, M-286, M-465 and M-3100 - Station Pkg.#6, #32 |
| C07.030.035 | MCFD-1593-01.00 | INSER            | COMPLETE    | CLEAR       | 01/23/96  | Class B penetrations M-154 and M-261 - Station Pkg.#6                     |
| C07.030.036 | MCFD-1593-01.02 | INSER            | COMPLETE    | CLEAR       | 10/12/95  | Station Test Zone #35   |
| C07.030.037 | MCFD-1593-01.03 | INSER            | COMPLETE    | CLEAR       | 01/23/96  | Class B penetrations M-393 and M-441 - Station Pkg.#6                     |
| C07.030.038 | MC-1599-2.2     | INSER            | COMPLETE    | CLEAR       | 06/12/98  | Class B penetration M-353   |
| C07.030.039 | MC-1601-2.4     | INSER            | COMPLETE    | CLEAR       | 06/05/98  | Class B penetration M-337   |
| C07.030.040 | MC-1604-3.0     | INSER            | COMPLETE    | CLEAR       | 12/20/95  | Class B penetrations M-240, M-279, M-385 and M-390 - Station Pkg.#2       |
| C07.030.041 | MC-1605-1.2     | INSER            | COMPLETE    | CLEAR       | 06/25/98  | Class B penetrations M-317 and M-386                                      |
| C07.030.042 | MC-1605-1.3     | INSER            | COMPLETE    | CLEAR       | 06/03/98  | Class B penetrations M-220 and M-359                                      |
| C07.030.043 | MC-1605-1.14    | INSER            | COMPLETE    | CLEAR       | 06/25/98  | Class B penetrations for instrument air system (no penetration number)    |
| C07.030.044 | MC-1605-1.17    | INSER            | COMPLETE    | CLEAR       | 06/03/98  |   |
| C07.030.045 | MC-1605-3.1     | INSER            | COMPLETE    | CLEAR       | 06/01/98  | Class B penetration M-215   |
| C07.030.046 | MC-1617-1.0     | INSER            | COMPLETE    | CLEAR       | 06/27/98  | Station Pkg.#32, #43  |
| C07.030.047 | MC-1605-2.2     | INSER            | COMPLETE    | CLEAR       | 06/10/98  | Class B penetration M-219   |
| D01.011.002 | MC-1554-2.0     | INSER            | COMPLETE    | CLEAR       | 09/19/95  | Station Pkg. No: #16  |
| D01.011.003 | MC-1554-3.1     | INSER            | COMPLETE    | CLEAR       | 09/19/95  | Station Pkg. Nos: #16   |
| D01.011.004 | MC-1554-5.0     | INSER            | COMPLETE    | CLEAR       | 09/19/95  | Station Pkg. #16  |
| D02.011.001 | MCFD-1573-01.00 | FUNCT            | COMPLETE    | CLEAR       | 08/30/95  | Station Pkg. Nos: #28, #29  |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments   |
|-------------|-----------------|------------------|-------------|-------------|-----------|--|
| D02.011.002 | MCFD-1573-01.01 | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | Station Pkg. Nos: #28, #29, #30, #31   |
| D02.011.004 | MC-1574-1.0     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | Station Pkg.#30, #31   |
| D02.011.005 | MC-1574-1.1     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  |  |
| D02.011.006 | MC-1574-2.0     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | Station Pkg.#30  |
| D02.011.007 | MC-1574-2.1     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  |  |
| D02.011.008 | MCFD-1 70       | FUNCT            | COMPLETE    | CLEAR       | 08/27/96  | Station Pkg.#31, #38B  |
| D02.011.009 | MCFD-1: J1      | FUNCT            | COMPLETE    | CLEAR       | 01/30/96  | STN. PKG.#31, #31  |
| D02.011.010 | MC-1574-4.0     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | Station Pkg.#30  |
| D02.011.011 | MCFD-1592-01.00 | FUNCT            | COMPLETE    | CLEAR       | 09/04/97  | Station Test Zone #54, #55, #56, #57, #58, #59                                   |
| D02.011.012 | MCFD-1592-01.01 | FUNCT            | COMPLETE    | CLEAR       | 08/27/96  | 2nd Period Station Pkg. Nos: #30, #33, #34, #38A, #38B, #54, #55, #56 #62        |
| D02.011.013 | MCFD-1593-01.02 | FUNCT            | COMPLETE    | CLEAR       | 10/12/95  | Station Test Zone #35  |
| D02.011.014 | MC-1604-3.0     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | Station Pkg.#30  |
| D02.011.015 | MCFD-1609-01.00 | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | 2nd Period Station Pkg. Nos: #15, #30  |
| D02.011.016 | MCFD-1609-01.01 | FUNCT            | COMPLETE    | CLEAR       | 01/30/96  | 2nd Period Test Pkgs: #14, #31   |
| D02.011.017 | MCFD-1609-02.00 | FUNCT            | COMPLETE    | CLEAR       | 09/12/95  | 2nd Period Station Pkg. Nos: #9, #11   |
| D02.011.018 | MCFD-1609-02.01 | FUNCT            | COMPLETE    | CLEAR       | 11/21/95  | 2nd Period Test Pkgs: #1, #10  |
| D02.011.019 | MCFD-1609-03.00 | FUNCT            | COMPLETE    | CLEAR       | 09,       | This test is required for periods 1, 2 and 3. 2nd<br>Period Station Pkg. Nos: #7 |
| D02.011.020 | MCFD-1609-03.01 | FUNCT            | COMPLETE    | CLEAR       | 11/21/95  | This test is required for periods 1, 2 and 3 - Stm. Pkg.# 8                      |
| D02.011.021 | MCFD-1609-04.00 | FUNCT            | COMPLETE    | RECORDABLE  | 10/23/95  | 2nd Period Station Pkg. Nos: #12, #13  |

| Item Number | Flow<br>Drawing | Required<br>Test | Test Status | Test Result | VT-2 Date | Comments  |
|-------------|-----------------|------------------|-------------|-------------|-----------|---|
| D02.011.022 | MC-2574-1.1     | FUNCT            | COMPLETE    | CLEAR       | 07/31/96  | Station Pkg.#30, #31  |
| D02.011.023 | MC-2574-3.0     | FUNCT            | COMPLETE    | CLEAR       | 01/30/96  | Station Pkg.#31   |
| D02.011.024 | MC-2574-4.0     | FUNCT            | COMPLETE    | CLEAR       | 01/30/96  |   |
| D02.011.025 | MC-2604-3.0     | FUNCT            | COMPLETE    | CLEAR       | 01/30/96  |   |
| D02.011.026 | MC-1581-1.0     | FUNCT            | COMPLETE    | CLEAR       | 08/20/96  | Station Pkg.#42, #47, #48   |
| D02.012.027 | MCFD-1609-03.00 | HYDRO            | COMPLETE    | CLEAR       | 09/12/95  | This test is required for periods 2 and 3 - 2nd<br>Period Station Pkg.#7  |
| D02.012.028 | MCFD-1609-03.01 | HYDRO            | COMPLETE    | CLEAR       | 11/21/95  | This test is required for periods 2 and 3 - 2nd<br>Period Station Pkg. #8 |
| D03.011.001 | MC-1570-1.0     | INSER            | COMPLETE    | CLEAR       | 10/19/95  | 2nd Period Station Pkg. Nos: #25, #52                                     |

11.5 Reportable Indications:

None