DWG. NO. MC-ISIL-1601-02.04 REV 0

DEMINERALIZED WATER STORAGE TANK A 08 1000 GAL.

DEMINERALIZED WATER STORAGE TANK B 29 1000 GAL.

1YM0238 SET AT 100 PSIG

1YM0240 SET AT 100 PSIG

1YM0099 1YM0126 1YM0235 1YM0236 1YM0092 1YM0411 1YM0412 1YM0254

ELEV. 785-0

DEMINERALIZED WATER SUPPLY MCFD-1601-02.03 YM L-10

1YM0100 FO OS 1YM0246 FO OS

UNIT 2 EQUIPMENT STAGING BUILDING

2YM0215 TO SLUDGE LANCING AREA

2YM0205 ES-2 YD ES-2 AB

UNIT 2 SHIPPING AND RECEIVING 2YM0214 1YM0340 1YM0131

COLUMN LINES PP-61

ICE MAKING SOL. MIX TANK NF E-8 MCFD-1558-02.00 1YM0103

BORON THERMAL REGEN. MAKEUP NR L-14 MC-2555-1.0 1YM0216

BORON THERMAL REGEN. MAKEUP NR L-14 MC-1555-1.0 1YM0104

COLUMN LINE KK-56 1YM0134

PENTHOUSE CHILLED WATER MAKEUP ELEV. 790-6 VA E-1 MC-1577-10 1YM0410

HOT LAB ELEV. 775-6 1YM0133 1YM0812 1YM0132 1YM0800 1YM0135

HEALTH PHYSICS LAB AREA

AB-AHS-1 HUMIDIFIER VA E-3 MC-1577-1 1YM0821

AB-AHS-6 HUMIDIFIER VA C-10 MC-1577-5

1YM0822 1YM0409 TO WET GRIT BLASTER

TO ELEV. 750-0 YM K-1 MCFD-1601-02.05

TO ELEV. 733-0 YM C-14 MCFD-1601-02.05

TO ELEV. 716-0 YM D-1 MCFD-1601-02.05

COLUMN LINE GG-54 1YM0152 1YM0130

CONTROL AREA CHILLED WATER SYSTEM MAKEUP YC G-4 MCFD-1618-01.00

COLUMN LINE PP-51 1YM0102 1YM0341 UNIT 1 SHIPPING AND RECEIVING

COMPONENT COOLING SURGE TANK COMPARTMENT 2B KC F-9 MCFD-2573-01.01

COMPONENT COOLING SURGE TANK COMPARTMENT 1B KC F-9 MCFD-1573-01.01

1YM0105 1YM0108

COMPONENT COOLING SURGE TANK COMPARTMENT 2A KC F-8 MCFD-2573-01.01

COMPONENT COOLING SURGE TANK COMPARTMENT 1A KC F-8 MCFD-1573-01.01

HOT WATER FOR DECON. SINKS ROOM 943 1YM0400 1YM0402 VS HOT WATER HEATER 32 1YM0403 VS 1YM0399 DECON. SINK ROOM 943

DECON. SINK 2A ELEV. 782-10 2YM0233

DECON. SINK 2B ELEV. 782-10 2YM0234

COLUMN LINES GG-52 UNIT 2 ELEV. 781-0 2YM0117

COLUMN LINES GG-52 UNIT 2 ELEV. 735-0 2YM0118

2YM0082 2YM0258 2YM0355 SET AT 100 PSIG

2YM-095L-B

2YM0124 2M337 ST-K 2YM0115B 2YM0116 FROM 750 FT HEADER YM F-6 MCFD-1601-02.05

1YM-095L-B

FROM 750 FT HEADER YM J-3 MCFD-1601-02.05 1YM0115B 1M337 1YM0124 1YM0116 1YM0082 1YM0258 LO 1YM0355 SET AT 100 PSIG

1YM0233 DECON. SINK 1A ELEV. 782-10

1YM0234 DECON. SINK 1B ELEV. 782-10

1YM0117 COLUMN LINES FF-50 UNIT 1 ELEV. 786-8

1YM0118 COLUMN LINES GG-50 UNIT 1 ELEV. 735-0

## UNIT 1

INSPECTION CRITERIA

| COMPONENT | ZONE NUMBER | TYPE OF TEST | PLAN ADDENDUM NO | RI SEGMENT NO |
|---|---|---|---|---|
| CLASS B SYSTEM | 1YM-095L-B | LEAKAGE | N/A | N/A |

## UNIT 2

INSPECTION CRITERIA

| COMPONENT | ZONE NUMBER | TYPE OF TEST | PLAN ADDENDUM NO | RI SEGMENT NO |
|---|---|---|---|---|
| CLASS B SYSTEM | 2YM-095L-B | LEAKAGE | N/A | N/A |

REFERENCE FLOW DIAGRAM MCFD-1601-02.04 REV. 2

ERN: MC009AWR

DESIGN PARAMETERS

| LINE LISTING | PIPE SPEC. | PRESSURE | TEMPERATURE | CLASS | MATERIAL |
|---|---|---|---|---|---|
| KC06 | PS 151.4 | 150 PSIG | 120 F | G | SS |
| NF41 | PS 150.4 | 150 PSIG | 120 F | G | CS |
| VA01 | | 100 PSIG | 120 F | G | CU |
| YM06 | PS 157 | 150 PSIG | 120 F | H | AL |
| YM10 | PS 157 | 150 PSIG | 120 F | H | AL |
| YM12 | PS 150.4 | 150 PSIG | 120 F | H | CS |
| YM19 | PS 151.2 | 100 PSIG | 250 F | B | SS |
| YM20 | PS 151.2 | 150 PSIG | 250 F | B | SS |
| YM23 | PS 151.4 | 150 PSIG | 120 F | H | SS |

LEGEND

- ISI CLASS 1
- ISI CLASS 2
- ISI CLASS 3
- ISI EXEMPT
- ZONE BOUNDARY

THIS DRAWING IS FOR INSERVICE INSPECTION ONLY AND SHALL NOT BE USED FOR OTHER PURPOSES SUCH AS MAINTENANCE, MODIFICATION, OR REPAIRS. THIS DRAWING SHALL BE REVISED WHEN AS-BUILT CHANGES AFFECT THE INSERVICE INSPECTION BOUNDARIES AND DETAILS OF THE COMPONENTS/SYSTEMS SHOWN.

| ORIG | RELEASED FOR ISI USE ONLY | TDM | 5-8-01 | JMB | 5-7-01 | RKR | 5-9-01 |
|---|---|---|---|---|---|---|---|
| NO. | REVISIONS | DRN | DATE | CHKD | DATE | APPR | DATE |

W A I V E D — CIVIL ELEC. MECH. INSPECTED

QA CONDITION 1

DUKE POWER COMPANY

MCGUIRE NUCLEAR STATION UNIT 1 AND 2

ASME SECTION XI

INSERVICE INSPECTION PRESSURE TEST BOUNDARY OF MAKEUP DEMINERALIZED WATER SYSTEM (YM)

| | | | | | |
|---|---|---|---|---|---|
| DESIGNER | TIM MYERS | DATE 5-8-01 | INSP. | WAIVED | DATE |
| DRAWN | TIM MYERS | DATE 5-8-01 | INSP. | WAIVED | DATE |
| CHECKED | JIM BOUGHMAN | DATE 5-7-01 | APPR. | R. KEVIN RHYNE | DATE 5-9-01 |

SCALE

DWG. NO. MC-ISIL-1601-02.04 REV 0

D-157