



- NOTES:**
1. THE RCIC SYSTEM IS ARRANGED FOR TEST OF PUMP AT FULL FLOW & ALL VALVES FOR OPEN & CLOSE CAPABILITY AT ANY TIME EXCEPT WHEN INITIATION SIGNAL OR AUTO ISOLATION SIGNAL IS ACTIVATED IN EVENT THE INITIATION SIGNAL OCCURS WHILE TEST IS UNDERWAY, THE SYSTEM AUTOMATICALLY RETURNS TO STARTUP MODE.
 2. ALL POWER FOR OPERATION OF DC VALVE MOTORS SHALL ORIGINATE FROM A PLANT DC BUS. POWER FOR AC OPERATED SHALL ORIGINATE FROM AN EMERGENCY AC BUS.
 3. *UNLESS OTHERWISE SHOWN: ALL INSTRUMENT PIS NOS. ARE PREFIXED E51 ALL VALVE AND EQUIPMENT PIS NOS. ARE PREFIXED E5100
 4. ISOLATION SIGNAL SWITCHES SHALL BE OF THE TYPE THAT CLOSE CONTACTS FOR THE SPECIFIED ISOLATION EVENT. WHERE AUXILIARY RELAYS ARE USED IN THE ISOLATION CHANNELS THEY SHALL BE POWERED FROM THE STATION BATTERY SO THAT THE LOSS OF AC POWER DOES NOT CAUSE AN ISOLATION TRIP.
 5. AUXILIARY RELAYS & DEVICES NOT SHOWN ON FUNCTIONAL CONTROL DIAGRAMS EXCEPT WHERE REQUIRED TO CLARIFY FUNCTION.
 6. DELETED
 7. FURNISHED WITH TURBINE.
 8. DELETED
 9. THE RCIC SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH PROPOSED CRITERIA FOR NUCLEAR POWER PLANT PROTECTION SYSTEM IEEE-279 UNLESS AS PRACTICABLE
 10. FOR LOCATION, IDENTIFICATION AND SET POINTS OF INSTRUMENTS SEE THE MASTER INSTRUMENT LIST.
 11. FOR CONFIGURATION OF PANEL MOUNTED OPERATORS AND INDICATORS SEE DWG. 6M-2290 SH2, REF 12 PURCHASE SPECIFICATION DATA SHEET SECT. 2.4.
 12. ALL MOTORS SHALL BE PROTECTED BY THERMAL OVERLOAD TRIPS AND BREAKER SHORT CIRCUIT CURRENT PROTECTIVE TRIPS.

- REFERENCE DOCUMENTS:**
1. NUCLEAR BOILER P&ID-----M-2089, M-2090, M-5538
 2. NUCLEAR BOILER MISC. SYSTEM LOGIC DIAGRAM---I-2090-01
 3. RHR SYSTEM LOGIC DIAGRAM-----I-2200-01
 4. CORE SPRAY SYSTEM LOGIC DIAGRAM-----I-2210-01
 5. HPCI SYSTEM LOGIC DIAGRAM-----I-2220-01
 6. RCIC SYSTEM P&ID-----M-2044, M-2045
 7. LOGIC SYMBOLS-----209A4756; R1-20
 8. TURBINE CONT. SYS & ELEC WIRING-----TERRY TURBINE VENDOR MANUAL #E51-01-C-002-J4-002
 9. REACTOR WATER CLEANUP SYS P&ID-----M-2046, M-2047
 10. LEAK DETECTION SYSTEM DESIGN SPACE-----22A1441; R1-138
 11. ELEC EQUIP. SEPARATION FOR SAFEGUARD SYS-----22A3777, R1-1410
 12. GENERAL REQUIREMENTS FOR INSTRUMENTATION & ELEC EQUIP.-----21A1768; R1-446, 448
 13. RCIC SCHEMATICS-----I-2231-01 THRU 10 I-2235-01 THRU 11
 14. LOGIC DIAGRAM-GROUP 8-RCIC ISOLATION VALVE MIMIC DISPLAY-----I-2230-07
 15. LOGIC DIAGRAM-GROUP 9-RCIC ISOLATION VALVE MIMIC DISPLAY-----I-2230-08

LEGEND:

| | |
|-----------------|------------------------------------|
| CMC | COORDINATED MANUAL CONTROL SWITCH |
| PB | PUSHBUTTON |
| AM | AMMETER |
| AK | SWITCHGEAR DEVICE FUNCTION NUMBERS |
| ANSI SPEC C37.2 | |
| RSP | REMOTE SHUTDOWN PANEL |
| RMS | REMOTE MANUAL SWITCH |
| LP | LOCAL PANEL |
| CR | CONTROL ROOM & RELAY ROOM |

61721-2230-01
LATEST REVISION E

THIS DRAWING SUPERSEDES EDISON'S SITE MASTER (VENDOR DRAWING 729E622AB SHT 1 REV 9) OF EDISON FILE NGR1-151

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NUCLEAR SAFETY RELATED

THIS DRAWING WAS REFORMATTED BY MICROSTATION AT REVISION "E". ALL PREVIOUS APPROVAL SIGNATURES ARE ON FILE OR MICROFILM IN DOCUMENT CONTROL.

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| TC | CHANGE DOCUMENT | PREPARED BY | DATE |
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| W.J. ADLER | 4/27/09 | 4/28/09 | 4/28/09 |

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| INC. CODE | Detroit Edison | Fermi 2 |
| TITLE | LOGIC DIAGRAM REACTOR CORE ISOLATION COOLING SYSTEM | |
| APERTURE CARD TITLE | LOGIC DIAG RCIC SYSTEM | |
| PLANT IDENTIFICATION SYSTEM NUMBER | E5100 | |
| DOCUMENT TYPE CODE | DDINC | NUC OPS FILE NO. 1801 |
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