



REF NO	TITLE	DATE	GENO
1	DIAGRAM-CONTROL ROD DRIVE HYDRAULIC SYSTEM (CRD)	M-2081	729E618AB
2	DIAGRAM-STAND-BY LIQUID CONTROL SYSTEM (SLC)	M-2082	729E601AB
3	DIAGRAM-RESIDUAL HEAT REMOVAL SYSTEM-DIVISION I (RHRI)	M-2084	729E602AB
4	DIAGRAM-RESIDUAL HEAT REMOVAL SYSTEM-DIVISION II (RHRI)	M-2084	729E602AB
5	DIAGRAM-CORE SPRAY SYSTEM (CSS)	M-2034	731E981
6	DIAGRAM-HIGH PRESSURE COOLANT INJECTION SYSTEM BARMETRIC CONDENSER (HPCIC)	M-2043	729E600AB
7	DIAGRAM-REACTOR CORE ISOLATION COOLING SYSTEM BARMETRIC CONDENSER (HPCIC)	M-2044	729E604AB
8	DIAGRAM-REACTOR CORE ISOLATION COOLING SYSTEM BARMETRIC CONDENSER (HPCIC)	M-2045	729E604AB
9	DIAGRAM-REACTOR WATER CLEAN-UP FILTER/DEMINERALIZER (RWCU)	M-2046	731E384AB
10	DIAGRAM-FUEL POOL COOLING SYSTEM FILTER/DEMINERALIZER (FPC)	M-2049	732B44AB
11	DIAGRAM-REACTOR BLDG CLOSED COOLING & EMERG COOLING WATER SYSTEM	M-2027	
12	DIAGRAM-REACTOR SERVICE WATER RISER SYSTEM	M-2078	
13	DIAGRAM-NUCLEAR BOILER	M-2089	729E616AB
14	DIAGRAM-REACTOR WATER CLEAN-UP SYSTEM PHASE SEPARATORS (RWCU)	M-2088	729E614A
15	DIAGRAM-CONDENSATE STORAGE SYSTEM	M-2006	
16	DIAGRAM-STATION AIR SYSTEM	M-2085	
17	DIAGRAM-FEEDWATER SYSTEM	M-2023	
18	DIAGRAM-REACTOR RECIRCULATION SYSTEM (RR)	M-2833	729E603AB
19	DIAGRAM-RESIDUAL HEAT REMOVAL SERVICE WATER SYSTEM	M-2012	
20	DIAGRAM-NUCLEAR BOILER	M-2090	729E616AB
21	DIAGRAM-HIGH PRESSURE COOLANT INJECTION SYSTEM	M-2090	729E627AB
22	LEGEND OF SYMBOLS & INST IDENT FOR PLANT SYSTEM DIAGRAMS	M-2001	
23	PRIMARY COND MONITOR SYS	I-2679-01	
24	PIPING AND INSTRUMENT SYMBOLS	R1-25	197A567

- NOTES:
- THIS DIAGRAM REPLACES GENERAL ELECTRIC DIAGRAM #729E600AB SH 1 REV 3.
  - SPECIFIC SYSTEM DESIGN REQUIREMENTS ARE GIVEN IN THE HIGH PRESSURE COOLANT INJECTION SYSTEM DESIGN SPECIFICATION NUMBER 3071-504.
  - THE PLANT IDENTIFICATION NUMBER FOR THE HPCI SYSTEM IS E4100.
  - FOR ASSEMBLY DWG NO. SEE KEY PLAN M-2320.
  - FOR GENERAL ARRANGEMENT SEE A-2000.
  - TORUS SUCTION LINE IS MONITORED FOR LEAKAGE.
  - EXCESS FLOW CHECK VALVES TYP F500 HAVE LOCAL RESET AND BOTH LOCAL AND CONTROL ROOM POSITION INDICATION.
  - TORUS PENETRATIONS X206A-D ARE ALSO USED BY THE PRIMARY CONTAINMENT MONITORING SYSTEM. (T50) SEPARATE EXCESS FLOW CHECK VALVES ARE PROVIDED FOR EACH SYSTEM.
  - ALL HPCI PIPING AND EQUIPMENT SHOWN ON THIS DIAGRAM IS GA LEVEL 1 UNLESS NOTED OTHERWISE.

TRANSMITTER NUMBER	DIV	POWER SUPPLY	TRIP UNIT
PXE-N009		K600	
PXE-N013		K600	
PXE-N016		K600	
PXE-N019		K600	
PXE-N055A,C	I	B21K609A, K609C	N655A,C
PXE-N055B,D	II	B21K609B, K609D	N655B,D
HPXE-N057A	I	B21K609A, K609C	N657A,N650A
HPXE-N057B	II	B21K609B, K609D	N657B,N660B
PXE-N058A,C	I	B21K609A, K609C	N658A,C
PXE-N058B,D	II	B21K609B, K609D	N658B,D
LXE-N061B,D	II	B21K609B, K609D	N661B,D
LXE-N062B,D	II	B21K609B, K609D	N662B,D

LEGEND

1. M- DWG NO. IDENTIFIES PIPING ISOMETRIC FOR FABRICATION AND ERECTION.

INSTRUMENT & CONTROL SYSTEM NOTES:

A. UNLESS OTHERWISE SHOWN ALL INSTRUMENT NO.'S ON THIS DIAGRAM ARE FOR SYSTEM E41.

B. NOTE REMOVED.

C. NOTE REMOVED.

6M721-2035  
LATEST REVISION  
BP

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NUCLEAR SAFETY RELATED

THIS IS A MICROSTATION PRODUCED DRAWING. CHANGES OR REVISIONS MUST BE BROUGHT TO THE ATTENTION OF THE PLANT ENGINEERING DESIGN GROUP TO ENSURE THAT CONFIGURATION CONTROL IS MAINTAINED.

INC. CODE	DATE	BY	REVISION
T			

Detroit Edison  
 Fermi 2  
 DIAGRAM  
 HIGH PRESSURE COOLANT  
 INJECTION SYSTEM (HPCI)  
 REACTOR BLDG  
 APERTURE CARD TITLE  
 DIAG HPCI SYS REACTOR BLDG  
 PLANT IDENTIFICATION SYSTEM NUMBER  
 E4100  
 DOCUMENT TYPE CODE  
 DDDMEC  
 NUC OPS FILE NO.  
 1801  
 DATE DESIGNED BY  
 10/8/2020  
 REV  
 BP

DATE	BY	REVISION
4/12/2020	Greg Brode	10/8/20

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