



- NOTES**
1. ALL COMPONENT MARK NUMBERS PREFIXED 10 UNLESS OTHERWISE NOTED.
 2. ALL MANUAL VALVES PREFIXED RHR UNLESS OTHERWISE NOTED.
 3. ALL INSTRUMENTATION POWERED FROM STATION BATTERY VIA VITAL AC SYSTEM.
 4. ALL I/RT CONNECTIONS ARE PIPING CLASS IC-N8 BEGINNING AT THE DOWNSTREAM SIDE OF THE REDUCER TO THE 3/8" I/RT CONNECTION.
 5. FOR DETAILS OF VENTS, DRAINS, & MISC. CONN. TO PUMPS, HEAT EXCHANGERS, ETC., SEE RESPECTIVE EQUIPMENT OUTLINE DRAWINGS.
 6. DD - DOUBLE DISK GATE VALVE WITH HOLE DRILLED ON DOWNSTREAM SIDE.
 7. MODIFICATION FM-84-053 REPLACED THE SECTION OF PIPING BETWEEN 10H1-B8 AND THE RECIRCULATION PUMP WITH SA420 WPL6.
 8. PIPE INSIDE TORUS IS CLASS 802 MATERIAL AND SCHEDULE 40.
 9. HOSE ONLY CONNECTED DURING SURVEILLANCE TESTING.

REFERENCE DWGS

1. FLOW DIAGRAM SYMBOLS FM-14A

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- RESIDUAL HEAT REMOVAL SYSTEM AMM-02
- CORE SPRAY SYSTEM AMM-03
- HIGH PRESSURE COOLANT INJECTION SYSTEM AMM-05
- REACTOR CORE ISOLATION COOLING SYSTEM AMM-06
- FUEL POOL COOLING AND CLEAN-UP SYSTEM AMM-19
- REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMM-33

QA CAT I,M,II/III

NUCLEAR SAFETY RELATED

JAMES A. FITZPATRICK
NUCLEAR POWER PLANT

FLOW DIAGRAM
RESIDUAL HEAT REMOVAL
SYSTEM 10

DWN					
CHK'D					
RESP. ENG.					
VERIFIED					
APPROVAL					
DATE					

SCALE NONE
DWN NO FM-20A
REV 70
SHEET 1 OF 1
REF: ISI-FM-20A

70	INCORPORATED DRN-05-00272	2/16/05	KMB	RVB	RK
69	5/8/04	AS BUILT PER DCR-04-026/DRN-04-03459	KMB	PD	-
68	3/1/04	AS BUILT PER MOD NO JD-03-005	KMB	RVB	-
67	3/2/03	AS BUILT PER MOD NO JD-03-005	KMB	JB	-

REVISIONS

REV NO	DATE	DESCRIPTION	DWN	CHK	REV	APP
69	5/8/04	AS BUILT PER DCR-04-026/DRN-04-03459	KMB	PD	-	JME
68	3/1/04	AS BUILT PER MOD NO JD-03-005	KMB	RVB	-	JA
67	3/2/03	AS BUILT PER MOD NO JD-03-005	KMB	JB	-	JA

0 4-02-06

NO.	DATE	DESCRIPTION	BY	CHK	APP

REVISIONS

LRA-FM-20A-0

CAD FILE
LRA-FM-20A_70.DGN
SHEET 1 OF 1
FM-20A_70.CAL