



- NOTES:**
2. FLOW METERING ORIFICE TO MEASURE FLOW DURING PERIODIC TEST AND CALIBRATION.
 3. ADJUST VALVES IN FIELD TO LIMIT PUMP RUN OUT, THEN LOCK AND TRAC-WELD IN POSITION.
 4. 3/8" INCH ID FLOW RESTRICTION REQUIRED.
 5. MINIMIZE THE LENGTH OF THIS PIPE.
 6. VENTS AND DRAINS ADDED BY CONSTRUCTION DEPT. FOR FLUSH AND HYDRO.
 7. A FULL BLANK COUPLING HAS BEEN INSTALLED TO PREVENT NC LEAKAGE INTO CHECK VALVE TEST HEADER.
 8. LOOP 4, CONNECTION IS AT NC COLD LEG CENTERLINE. OTHER 3 LOOPS (1,2,3), CONNECTION IS AT TOP OF PIPING.
 9. VENT AND DRAIN ASSEMBLIES ARE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MCS-1286.00-02-0002 USING ENGINEERING SPECIFICATION MDS-ES-1A, 1B, 1C AND 1D.
 10. VALVES 1N18089A AND 1N18018B HAS A MAX STROKE TIME OF 11 SECONDS.
 11. BLANK FULL COUPLING.
 12. AIR AND POWER ARE ISOLATED TO MAINTAIN FAIL CLOSED POSITION.

DESIGN PARAMETERS

LINE LISTING	PIPE SPEC.	PRESSURE	TEMPERATURE	CLASS	MATERIAL
NC02	PS 2501.1	2405 PSIG	650 F	A	SS
NI14	PS 2501.2	2405 PSIG	650 F	B	SS
NI35	PS 2501.2	2405 PSIG	650 F	B	SS
NI36	PS 2501.4	2405 PSIG	650 F	E	SS
NI37	PS 2501.2	2735 PSIG	250 F	B	SS
NI4A	PS 2501.1	2405 PSIG	650 F	A	SS
NI50	PS 2501.2	2405 PSIG	250 F	B	SS
NI64	PS 2501.2	2735 PSIG	250 F	B	SS
NV11	PS 1501.2	2735 PSIG	180 F	B	SS
VL35	TS 2701.1	50 PSIG	200 F	E	ST
VL43	TS 2701.1	100 PSIG	200 F	E	ST

S-S-S
STANDBY SHUTDOWN SYSTEM

NOTE: DRAWING MCFD-1562-01.00 REPLACES MC-1562-1.0 REV. 10

ON CONDITION 1 AND 2

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION UNIT 1
FLOW DIAGRAM OF
SAFETY INJECTION
SYSTEM (NI)

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE	CIVIL	ELEC	MECH	INSPECTED
3	AS-BUILT PER MEMO-13161	RDR	02/18	JRC	02/18	ROM	02/18	ARS	MAB	JWR	

DESIGNER	REV	DATE	INSR	DATE	DATE	DATE
		08-24-85		08-24-85	08-24-85	08-24-85

DO5