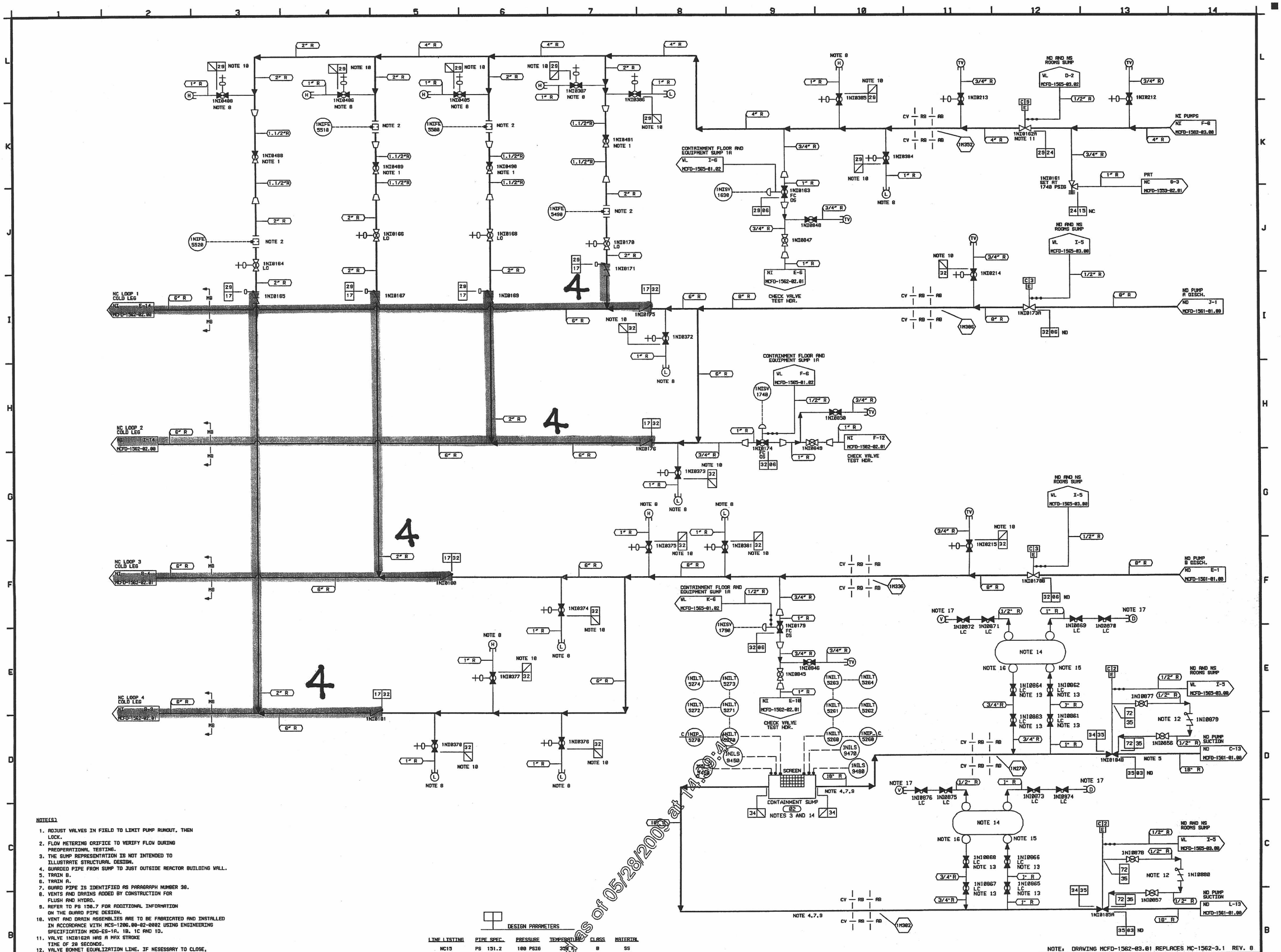

NOTE(S)

1. ADJUST VALVES IN FIELD TO LIMIT PUMP RUNOUT. THEN LOCK.
2. FLOW METERING ORIFICE TO VERIFY FLOW DURING PREOPERATIONAL TESTING.
3. THE SUMP REPRESENTATION IS NOT INTENDED TO ILLUSTRATE STRUCTURAL DESIGN.
4. GUARDED PIPE FROM SUMP TO JUST OUTSIDE REACTOR BUILDING WALL.
5. TRAIN B.
6. TRAIN A.
7. GUARD PIPE IS IDENTIFIED AS PARAGRAPH NUMBER 38.
8. VENTS AND DRAINS ADDED BY CONSTRUCTION FOR FLUSH AND HYDRO.
9. REFER TO PS 150.7 FOR ADDITIONAL INFORMATION ON THE GUARD PIPE DESIGN.
10. VENT AND DRAIN ASSEMBLIES ARE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MCS-1206.00-02-0002 USING ENGINEERING SPECIFICATION MCG-ES-16, 1B, 1C AND 1D.
11. VALVE 1NI0162A HAS A MAX STROKE TIME OF 20 SECONDS.
12. VALVE BONNET EQUALIZATION LINE. IF NESESSARY TO CLOSE, DO NOT OVER TIGHTEN.
13. ALL VALVES ARE INSTALLED WITH FLOW DIRECTION TOWARD THE 18"PIPING. ALL PIPING IS SCH 80.
14. ECCS SUMP PIPING DRAIN RESERVOIR.
15. ECCS SUMP PIPING DRAIN PATH TO RESERVOIR.
16. ECCS SUMP PIPING VENT PATH TO RESERVOIR.
17. ALL PIPING IS SCH 80 AND A NON DA QUICK-CONNECT INSTRUMENT FITTING WITH A CAP IS INSTALLED.

DESIGN PARAMETERS

	LINE LISTING	PIPE SPEC.	PRESSURE	TEMPERATURE	CLASS	MATERIAL
	NC15	PS 151.2	100 PSIG	350 F	B	SS
	ND03	PS 401.2	450 PSIG	250 F	B	SS
	ND06	PS 601.2	600 PSIG	250 F	B	SS
	NI06	PS 2501.4	2465 PSIG	650 F	E	SS
	NI17	PS 2501.1	2465 PSIG	650 F	A	SS
	NI24	PS 1501.2	1740 PSIG	100 F	B	SS
	NI28	PS 2501.2	2465 PSIG	650 F	B	SS
	NI32	PS 2501.2	2465 PSIG	650 F	B	SS
	NI34	PS 151.2	22 PSIG	250 F	B	SS
	NI35	PS 401.2	450 PSIG	350 F	B	SS
NOTE 7	NI38	PS 150.7	22 PSIG	250 F	B	CS
	NI72	TS 2701.1	450 PSIG	350 F	B	ST
	WL35	TS 2701.1	50 PSIG	200 F	E	ST
	WL43	TS 2701.1	100 PSIG	200 F	E	ST

This Page Was Printed as of 05/28/2009 at 14:30:41

NOTE: DRAWING MCFD-1562-03.01 REPLACES MC-1562-3.1 REV. 8

QA CONDITION 1 AND 2

DUKE ENERGY
MCGUIRE NUCLEAR STATION UNIT 1

FLOW DIAGRAM OF
SAFETY INJECTION SYSTEM
(NI)

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE	CIVIL	ELEC.	MECH.
10	PER M-06-04932/EXEMPT CODE G.8	CJZ	11-29-07	DRP	11-29-07	RDM	11-29-07	-V-	-V-	-V-
9	AS-BUILT PER MD100999	DRP	10-29-07	JWR	10-29-07	RDM	10-29-07	-V-	-V-	-V-

INSPECTED

DESIGNER RW REVELS DATE 08-24-95 INSP. B. FLING DATE 08-30-95
DRAWN JW WILLIAMS DATE 08-23-95 INSP. MN DICKS DATE 10-20-95
CHECKED MJ PLESO DATE 08-23-95 APPR. RA HARRIS DATE 11-02-95

SCALE DWG. NO. MCFD-1562-03.01 REV 10

ERNE MC009081

Duke Energy Corporation
Relief Request # 09-MN-005
Attachment 2, Page 9 of 18

D09