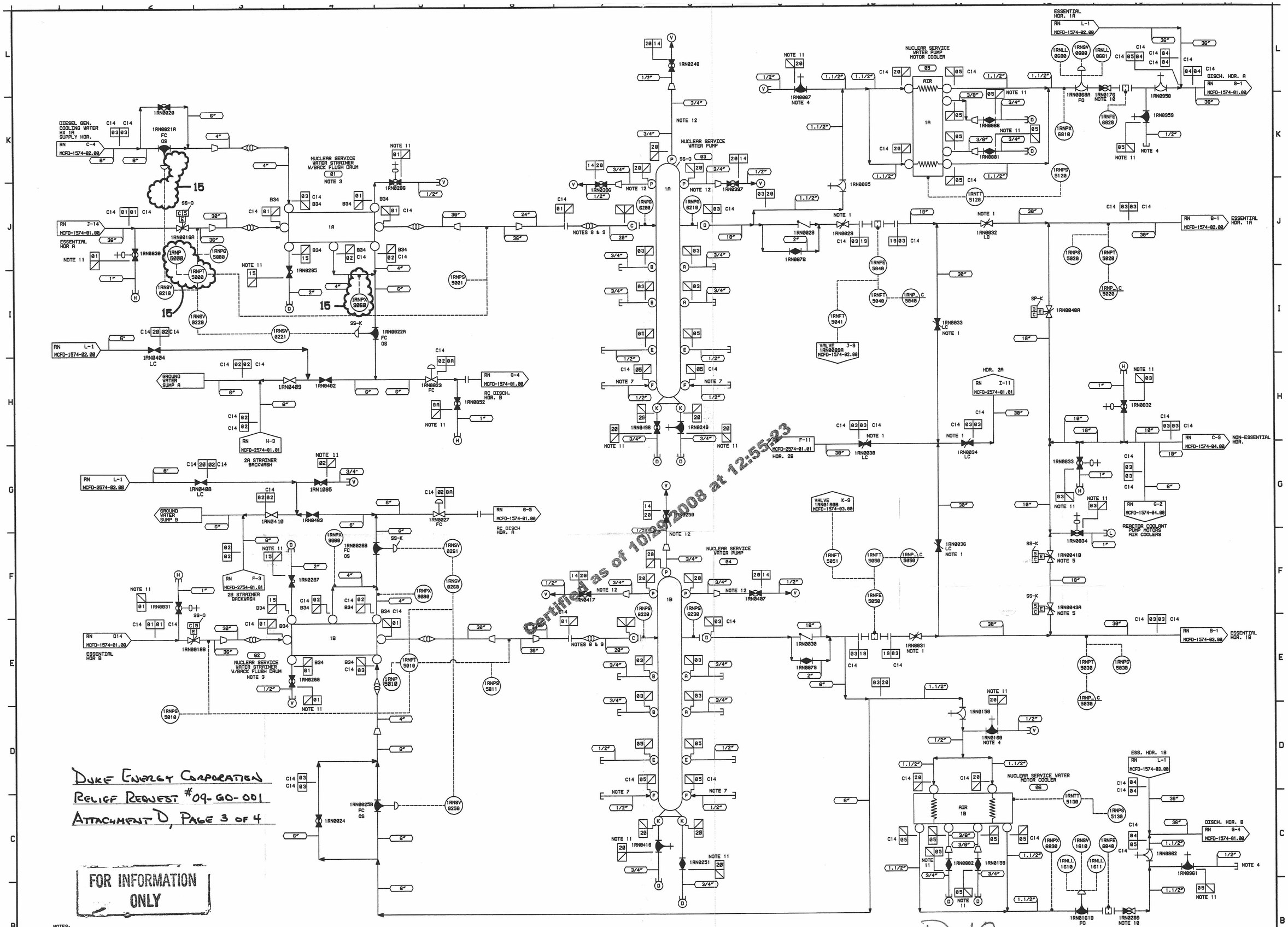

Duke Energy Corporation
Relief Request #09-GO-001
Attachment D, Page 3 of 4

FOR INFORMATION ONLY

NOTES:

1. VALVE DESIGN PRESSURE IS 130 PSIG.
2. SEE SYSTEM DESCRIPTION FOR NORMAL OPERATING CONDITIONS.
3. THIS COMPONENT WAS NOT BUILT TO ASME III. HOWEVER IT WAS BUILT TO THE APPLICABLE CODE AT THE TIME OF PURCHASE AS PER MCGUIRE FSAR TABLE 1A. 4-2.
4. CLEANOUT CONNECTION
5. VALVES 1RN0041B AND 1RN0043A RECEIVE AN SS SIGNAL FROM EITHER UNIT TO CLOSE.
6. PUMP CONNECTIONS E AND F CAN BE INTERCHANGED PROVIDED EACH GLAND HAS A SEAL WATER SUPPLY AND A SEAL WATER RETURN. CONNECTIONS SHOWN ARE TYPICAL.
7. STAINLESS STEEL PIPE TIED INTO CONNECTION F ON RN PUMPS IS SCHEDULE 80.
8. EXPANSION JOINT REDUCES FROM 24 INCHES TO 20 INCHES.
9. EXPANSION JOINT BUILT TO ASME III. CLASS 3 CODE.
10. THE STEM LOCKNUT ON THIS VALVE MUST BE LOOSENED BEFORE THE VALVE CAN BE REPOSITIONED.
11. VENT AND DRAIN ASSEMBLIES ARE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MCS-1206.00-02-0002 USING ENGINEERING SPECIFICATIONS MDG-ES-1A, 1B, 1C AND 1D.
12. USE SCHEDULE 160 FOR THIS SECTION OF PIPING DUE TO PUMP VIBRATION.

DESIGN PARAMETERS

LINE LISTING	PIPE SPEC.	PRESSURE	TEMPERATURE	CLASS	MATERIAL
RN01	PS 150.3	35 PSIG	95 F	C	CS
RN02	PS 150.3	135 PSIG	95 F	C	CS
RN03	PS 150.3	135 PSIG	95 F	C	CS/SS
RN04	PS 150.3	135 PSIG	150 F	C	CS/SS
RN05	PS 151.3	135 PSIG	150 F	C	SS
RN14	TS 2701.1	135 PSIG	95 F	C	ST
RN15	PS 151.3	35 PSIG	95 F	C	SS
RN19	PS 151.3	135 PSIG	95 F	C	SS
RN20	PS 151.3	135 PSIG	95 F	C	SS
RN8A	PS 150.4	40 PSIG	150 F	F	CS

D-10

NOTE: DRAWING MCFD-1574-01.01 REPLACES MC-1574-1.1 REV. 19

QA CONDITION 1 AND 4

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE	CIVIL	ELEC.	MECH.
15	AS-BUILT PER MD101813	DRP	10-21	EPR	10-21	WN	10-21	-W-	-W-	-W-
14	AS-BUILT PER MD101624	DRP	10-14	PSC	10-14	RDM	10-14	-W-	-W-	-W-
13	AS-BUILT PER MD101864	MOB	10-06	MLG	10-06	WAW	10-06	-W-	-W-	-W-
12	AS-BUILT PER MD100461	DRP	06-18	EPR	06-18	PJR	06-18	-W-	-W-	-W-
11	AS-BUILT PER MD200464	DRP	07-11	EPR	07-11	RDM	07-11	LSW	MAB	JWB
10	AS-BUILT PER MGMM-14040	DRP	03-26	EPR	03-26	WMS	03-26	ARS	MAB	JWR

INSPECTED

DUKE ENERGY
MCGUIRE NUCLEAR STATION UNIT 1

FLOW DIAGRAM OF
NUCLEAR SERVICE WATER
SYSTEM (RN)

DESIGNER JW ROBBINS DATE 10-25-94 INSP. HV DINH DATE 10-28-94
DRAWN JW WILLIAMS DATE 10-24-94 INSP. DJ WILLIAMS DATE 11-10-94
CHECKED MJ PLESO DATE 10-24-94 APPR. RA HARRIS DATE 11-11-94

SCALE DWG. NO. MCFD-1574-01.01 REV. 15

ERN: MC0041WZ