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 2JNFT5010 - 50 A-2  
 2JNFT5030 - 50 B-1  
 2JNFT5050 - 50 C-1  
 2JNFT5070 - 50 D-2  
 See Det. MC-2499-S4E

**NOTES:**

1. Slope tubing line downward from process tap to instrument a minimum of 1/8" per foot.
2. Locate expansion coil between the last pipe valve and first support bracket.
3. Fittings, tubing, and valves designated on this detail by classification 2a of the Fittings Classification List are safety class. Substitutes from other classifications are not permitted.
4. Reservoir to be located at same elevation as tap.

**NUCLEAR SAFETY RELATED EXCLUSIONS**

1. Fittings, Tubing, Piping, and Valves (Not part of a Safety Related Piping System, etc.)
  - a) None
2. Instruments (Do not serve a Safety Function)
  - a) None

20FLT5490 (98 "A"-4)  
 20FLT5500 (98 "A"-3)  
 20FLT5510 (98 "Y"-2)  
 20FLT5520 (98 "A"-4)  
 20FLT5530 (98 "A"-3)  
 20FLT5540 (98 "A"-1)  
 20FLT5550 (98 "A"-4)  
 20FLT5560 (98 "A"-3)  
 20FLT5570 (98 "A"-1)  
 20FLT5580 (98 "A"-4)  
 20FLT5590 (98 "A"-3)  
 20FLT5600 (98 "A"-2)  
 SEE LINE REV 1

TO COMPUTER, FACS 8 20FPS490 (98 "A"-4)  
 TO COMPUTER, FACS 8 20FPS500 (98 "A"-3)  
 TO COMPUTER, FACS 8 20FPS510 (98 "Y"-2)  
 TO COMPUTER, FACS 8 20FPS520 (98 "A"-4)  
 TO COMPUTER, FACS 8 20FPS530 (98 "A"-3)  
 TO COMPUTER, FACS 8 20FPS540 (98 "A"-1)  
 TO COMPUTER, FACS 8 20FPS550 (98 "A"-4)  
 TO COMPUTER, FACS 8 20FPS560 (98 "A"-3)  
 TO COMPUTER, FACS 8 20FPS570 (98 "A"-1)  
 TO COMPUTER, FACS 8 20FPS580 (98 "A"-4)  
 TO COMPUTER, FACS 8 20FPS590 (98 "A"-3)  
 TO COMPUTER, FACS 8 20FPS600 (98 "A"-2)  
 SEE LINE REV 1

**FUNCTIONAL DESCRIPTION:** (FOR S. G. "A", APPLIES TO ALL.)

20FLT5490, 20FLT5500, AND 20FLT5510 MONITOR STEAM GENERATOR LEVEL AND SEND SIGNALS TO THE COMPUTER. 20FPS490, 20FPS500, AND 20FPS510 RESPECTIVELY. A 2/3 COINCIDENCE OF LOW-LOW WATER LEVEL PROVIDES A REACTOR TRIP SIGNAL. A 2/3 COINCIDENCE OF HIGH WATER LEVEL CLOSURES FEEDWATER VALVE TO STEAM GENERATOR. 20FLT5510 ALSO SENDS A SIGNAL TO FACS.

**NUCLEAR SAFETY RELATED**  
(Except As Excluded Above)

				DUKE POWER COMPANY	
				MCGUIRE NUCLEAR STATION UNIT 2	
				INSTRUMENT DETAIL	
				SG NARROW RANGE LEVEL	
				2. Added Connections & Markings 1. Added Instr. 5 Rel. for Const.	
DATE: Preliminary				DRAWING NO. MC-2495-CF5 SCALE:	
NO.	REVISIONS	CHKD	APPR	DATE	DWG. NO. MC-2495-CF5 SCALE:

Cl. 2 Hydro SHT 2

FOR INFORMATION ONLY

SI APERTURE CARD

PDR RIDS

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