



- NUCLEAR SAFETY RELATED EXCLUSIONS**
- Fittings, Tubings, Piping, & Valves** (Not part of a Safety Related Piping System, Etc.)
 - None
 - Instruments** (Do not serve a Safety Function)
 - None

FUNCTIONAL DESCRIPTION: (FOR LOOP "A," APPLIES TO OTHERS)
 2NCF15000, 2NCF15010, & 2NCF15020 MONITOR THE REACTOR COOLANT FLOW BY MEASURING THE PRESSURE DROP GENERATED BY FLOW THROUGH AN ELBOW. EACH OF THESE TRANSMITTERS SUPPLIES AN INPUT TO THE PROTECTION PORTION OF THE REACTOR CONTROL & PROTECTION SYSTEM. ALSO, THEY SUPPLY INPUTS TO THE COMPUTER AND INDICATORS 2NCF5000, 2NCF5010, AND 2NCF5020, RESPECTIVELY.

Rev. 4 As per VN#20,635

AS-BUILT
DATE 11-5-81

QA CONDITION 1
NUCLEAR SAFETY RELATED
 (Except As Excluded Above)

- NOTES:**
- DRIVE SLOPE FROM PROCESS TAP TO 1" O" BEYOND SECOND ROOT VALVE. THEN SLOPE DOWNWARD TO INSTRUMENT A MINIMUM OF 1/4" PER FOOT.
 - Fittings, tubings, and valves designated on this detail by classification 1s of the Fittings Classification List are safety class. Substitutes from other classifications are not permitted.
 - Locate the expansion coil between the last root valve and first support bracket.
 - Instrument location and routing of instrument lines shall meet the separation criteria.
 - Piping spec. 2501.2 is to be used at instrument tap.

NO.	REVISIONS	CHG'D	APPR'D	DATE	BY	REASON
6	RELOCATED CLASS FLAG					
5	REV AS BUILT					
4	Added Note No. 5					
3	Added Flow Check Valves					
2	Rev Note 1.					
1	Rev. for Const.					

DUKE POWER COMPANY	
MCGUIRE NUCLEAR STATION UNIT 2	
INSTRUMENT DETAILS	
REACTOR COOLANT LOOP FLOW	
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
SCALE	DWG. NO. NC-2493-NC1

SI
 APERTURE
 CARD
 FOR INFORMATION
 ONLY

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PDR RIDS

