



**NUCLEAR SAFETY RELATED EXCLUSIONS**

1. Fittings, Tubings, Piping, & Valves (Not part of a Safety Related Piping System, Etc.)
  - a) None
2. Instruments (Do not serve a Safety Function)
  - a) 2NVFES120, 2NVFTS120, 2NVFTS121
  - b) 2NVFES130, 2NVFTS130, 2NVFTS131
  - c) 2NVFES140, 2NVFTS140, 2NVFTS141
  - d) 2NVFES150, 2NVFTS150, 2NVFTS151

**FUNCTIONAL DESCRIPTION (FOR RCP "D", APPLIES TO OTHERS)**

2NVFTS120 & 2NVFTS121 MONITOR THE LEAKAGE FROM THE RCP #1 SEAL. 2NVFTS120 MONITORS THE LOW RANGE OF FLOW AND 2NVFTS121 MONITORS THE HIGH RANGE. THROUGH THE PROCESS CONTROL CABINETS, 2NVFTS120 SUPPLIES A SIGNAL TO 2NVCRS120 AND 2NVFTS121 SUPPLIES A SIGNAL TO 2NVCRS121.

**NOTES:**

1. Slope impulse line upward from tap to vent at the highest point, then slope downward to instrument a minimum of 1/4" per foot. V38S is suitable for vent valves.
2. Fittings, tubings, and valves designated on this detail by classification 5s of the Fittings Classification List are safety class. Substitutes from other classifications are not permitted.
3. Refer to MC-1499-M12 for containment vessel instrument penetration detail.

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

DUKE POWER COMPANY  
MCGUIRE NUCLEAR STATION UNIT 2

INSTRUMENT DETAILS  
R C P CONTROLLED LEAKAGE  
FLOW

NO.	REVISIONS	CHKD	APPR	DATE	CIVIL	ELC.	MSCH.	INSPECTED
5	REVISED SR EXCLUSIONS.			10/18/81	N/R	D/V	N/R	
4	Add "As Built" Stamp			7/20/81	N/R	D/V	N/R	
3	ADDED TO NOTE 1			4/21/81	N/R	D/V	N/R	
2	Deleted Slope			2/2/80	N/R	D/V	N/R	
1	Rel for Construction			10/17/79	N/R	D/V	N/R	
ORIG.	PRELIMINARY				N/C	T/H	N/C	

DESIGNER	DATE	INSP	DATE
DRAWN	DATE	INSP	DATE
CHECKED	DATE	APPROV	DATE

SCALE: DWG. NO. MC-2493-NV3 REV 5

REV. 3 AS PER VN# 25,186  
Rev 2 per VN# 22,264

FOR INFORMATION  
ONLY

CL. 2 Hydro

SHT. 2

SI  
APERTURE  
CARD

8904030219

PDR RIDS

