



- NOTES:**
1. SLOPE IMPULSE LINE DOWNWARD FROM PROCESS TAP TO INSTRUMENT A MINIMUM OF 2" PER FOOT.
 2. FITTINGS, TUBINGS, AND VALVES DESIGNATED ON THIS DETAIL BY CLASSIFICATION 6a OF THE FITTINGS CLASSIFICATION LIST ARE SAFETY CLASS. SUBSTITUTES FROM OTHER CLASSIFICATIONS ARE NOT PERMITTED.

- NUCLEAR SAFETY RELATED EXCLUSIONS**
1. FITTINGS, TUBINGS, PIPING, AND VALVES (NOT PART OF A SAFETY RELATED PIPING SYSTEM, ETC.)
 - A) CLASSIFICATION ∇
 2. INSTRUMENTS (DO NOT SERVE A SAFETY FUNCTION)
 - A) 2KCF5110, 2KCF5110, 2KCF5110 & 2KCF5111 2KCFR1410

2KCFR1410 MOORE 550 CONTROLLER WITH 150PSI BYPASS ITEM NO. 1217-02-10 ∇ 3.

2KCF1411 (2KCFV1410) WITH FISHER 3200 POSITIONER & 67PII FILTER REGULATOR ∇ 4.

AS - BUILT
DATE 9-15-81

FUNCTIONAL DESCRIPTION:
2KCF5110 MONITORS THE OUTLET FLOW FROM THE SEALWATER HEAT EXCHANGER AND PROVIDES SIGNALS TO 2KCF5110, 2KCF5111, AND 2KCF141. 2KCF141 IS REGULATED TO MAINTAIN THE DESIRED SETPOINT. 2KCF5110 & 2KCF5111 ARE SET TO PROVIDE ALARMS ON HIGH AND LOW FLOW, RESPECTIVELY.

NUCLEAR SAFETY RELATED
(EXCEPT AS EXCLUDED ABOVE)

NO.	REVISIONS	CHKD	APPD	DATE	CRVD	ELSD	INSPCTD
4	Added "As Built" Stamp						
3	Rev. as Noted						
2	Rev. as Noted						
1	Rel. for Constr.						
ORIG.	PRELIMINARY						

DUKE POWER COMPANY
MCUIRE NUCLEAR STATION UNIT 2

INSTRUMENT DETAILS
SEALWATER HX OUTLET FLOW CONTROL

DESIGNED BY: DATE: INSP. DATE: DATE: DATE:
DRAWN BY: DATE: INSP. DATE: DATE: DATE:
CHECKED BY: DATE: APPR. DATE: DATE: DATE:

SCALE: DWG. NO. NC-2499-KC4 REV 4

SI
APERTURE
CARD

FOR INFORMATION
ONLY

SHT 3
CL-3 HYDRO

PDR RIDS

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