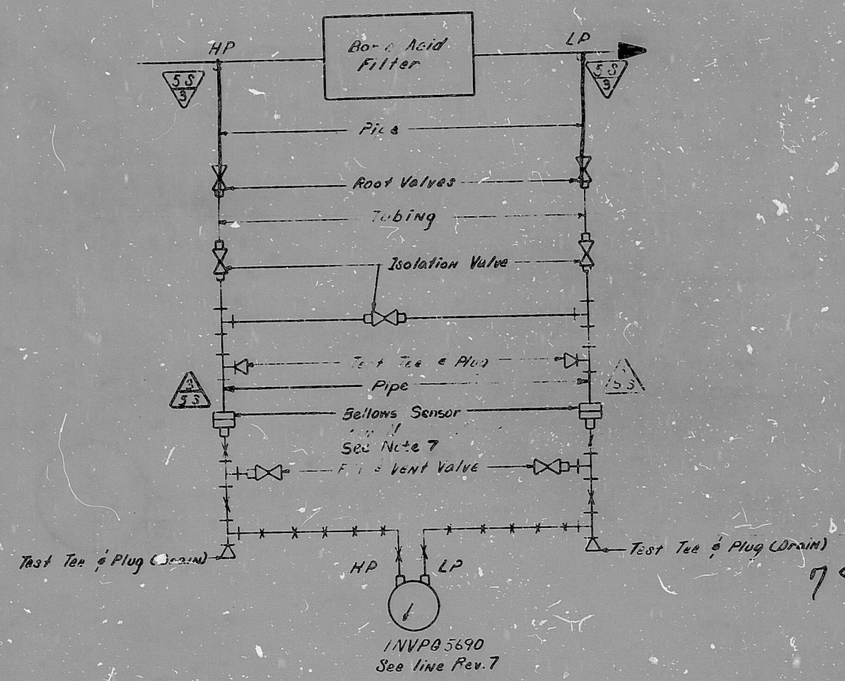


NUCLEAR SAFETY RELATED EXCLUSIONS

1. Fittings, Tubings, Piping, & Valves (Not part of a Safety Related Piping System, etc.)

   a) Filled capillary and Bellows Sensor.

2. Instruments (Do not serve a Safety Function)

   a) INVPG5690

Reference Drawing: MC-1499-NV46.02

NOTES:

1. The fill and vent valve is designated as an isolation valve.
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, except as noted below.
3.
4. Locate the Bellows Sensor at the same elevation as tap.
5. Slope from Bellows Sensor to instrument should be minimal.
6. See drawing number MC-1499-NV46.02 for layout and installation information.
7. Use 1: SS pipe, sch 80, SA312, TP304, WLTHK.079" and 1" x ½" SS reducer coupeling SA182, F304, 3000# Class C of better to adapt bellows sensor to ½" pipe.

FUNCTIONAL DESCRIPTION:

INVPG5690 is an indicating differential pressure switch which monitors the pressure drop across the Boric Acid Filter. Local indication is provided, and there is an alarm on high d/P.

Rev 7 as per VN # 16,519
Rev. 5 as Per VN # 12,426

7. Deleted Note 3
6. Added As Built Note
5. Rev. as Noted
4. Rev Notes
3. Rev. Tubing & Added N/R Notes
2. Added Fill and Drain & Deleted Drain Note, Changed Dwg. Number
1. Added Note & Ref. for Const. For Information Only

CPT CWB 8-22-78 N/R RWA N/R
CPT CWB 6-20-78 N/R DM N/R
CPT CWB 2-7-78 N/R DJL N/R
CWB 2-14-1-6-77 N/R RWA N/R
RWA RMS 3-17-76 N/R RDA N/R
RWA RMS 6-5-75 N/R JAL N/R
RWA JLR 4-1-74 N/R RWA N/R
JAL 10-9-73 N/R RWA N/R

NUCLEAR SAFETY RELATED
(Except As Excluded Above)

DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION UNIT I.
INSTRUMENT DETAILS
BORIC ACID FILTER D/P

CW Bond 7-18-73
7-3-73
Review 10-9-73
MC-1499-NV46.01

CL.3 Hydro SHT 2

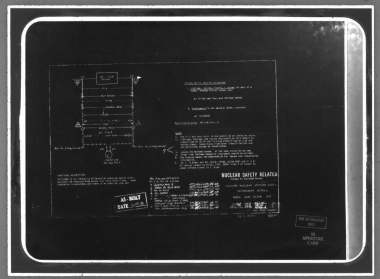
AS-BUILT
DATE 6-19-78

FOR INFORMATION ONLY

SI APERTURE CARD

8905240144

DR RIDS



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