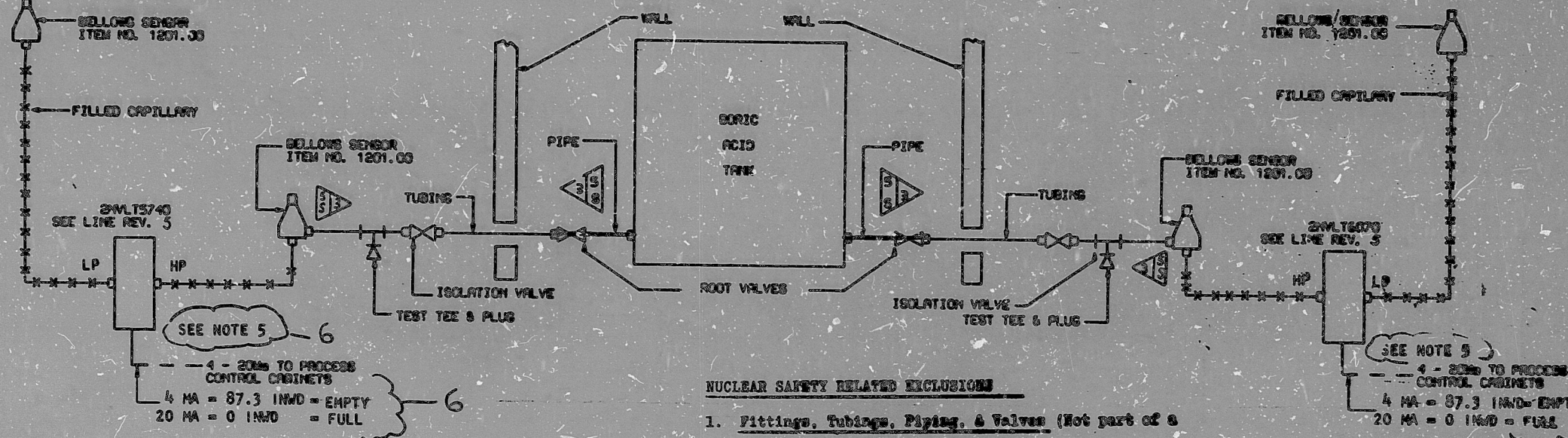


**NOTES:**

- DO NOT SLOPE IMPULES. THE IMPULES LINE SHOULD BE AT THE SAME ELEVATION FROM THE TAP TO THE LOWER BELLOW SENSOR. THE UPPER BELLOW SENSOR IS TO BE AT THE TAP ELEVATION PLUS 87.3 INCHES.
- 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.
- The bellows sensor filled capillaries and instruments are vendor-supplied and are shown only as a schematic.

- Slope from the bellows sensor to instrument should be minimal.
- WHEN USING ROSEMOUNT 1151DP TRANSMITTER FOR REVERSE ACTING THE REFERENCE LEG MUST BE TUBED TO THE L.P. PORT AND THE VARIABLE LEG MUST BE TUBED TO THE H.P. PORT.

**S-S-S**  
STANDBY SHUTDOWN SYSTEM



**NUCLEAR SAFETY RELATED EXCLUSIONS**

- Fittings, Tubings, Piping, & Valves (Not part of a Safety Related Piping System, Etc.)
  - a) Filled Capillary including bellows sensor.
- Instruments (Do not serve a Safety Function)
  - a) 2NVL5740
  - b) 2NVL6070

**FUNCTIONAL DESCRIPTION:**

2NVL5740 AND 2NVL6070 MONITOR BORIC ACID TANK LEVEL AND SUPPLY INPUTS TO THE PROCESS CONTROL CABINETS. THE LEVEL IS INDICATED ON INDICATORS 2NWS740 AND 2NWS070, RESPECTIVELY. ALARMS ARE GENERATED ON HIGH, LOW, LOW-LOW AND EMPTY LEVELS. THE LOW LEVEL ALARM IS SET TO INDICATE THE MINIMUM LEVEL OF BORIC ACID TO ENSURE SUFFICIENT BORIC ACID TO PROVIDE FOR A COLD SHUTDOWN WITH ONE STUCK ROD.

REV 2 AS PER W/ 20920

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

DUKE POWER COMPANY  
MCGUIRE NUCLEAR STATION UNIT 2

INSTRUMENT DETAILS  
BORIC ACID TANK LEVEL

NO.	REVISIONS	CHKD	CHNG	APPR	DATE	CIVIL	ELECT	INSTR	IMPACTED
6.	PER ME-VH-909								
5	ADDED S.S.S. STAMP								
4	REVISED INSTRUMENT RANGE								
3	Added "As-Built" Stamp								
2	Revised Notes								
1	Deleted Note & Ref. for Const.								
0	PRELIMINARY								

SI  
APERTURE  
CARD

FOR INFORMATION  
ONLY

3HT  
CL3 HYDRO



8904100361

PDR RIDS

