



- NOTES
1. STUB-INS FOR HIGH PRESSURE PUMP CONNECTION ARE PROVIDED FOR FUTURE USE.
  2. (TYPICAL)
 

PUMP	LINE NUMBER
2P-70A	2P-70A-1
2P-70B	2P-70B-1
2P-70C	2P-70C-2
  3. LINES TO THE SAMPLE SYSTEMS ARE STAINLESS STEEL TUBING AS SPECIFIED IN 7220-J-405.
  4. VENT AND OVERFLOW FROM BORIC ACID MIX TANK ACCOMPLISHED THROUGH HANSON ON TOP OF TANK.
  5. THE LOOP-SEAL ISOLATION VALVE SHOULD BE CONVENIENTLY LOCATED IN A LOW RADIATION ZONE TO ALLOW FILLING OF THE LOOP SEAL BY DEMINERALIZED WATER. A NORMALLY OPEN ISOLATION VALVE SHOULD BE INCLUDED UP STREAM OF THE TUBING WHICH MAY BE MANIPULATED FOR THE LOOP-SEAL VALVE MAINTENANCE.
  6. THE VACUUM BREAKERS SHOULD BE LOCATED WITHIN THREE FEET OF THE TANK NEZZLE.
  7. THE MAXIMUM ELEVATION OF THE LOOP-SEAL TO BE AS CLOSE TO THE TOP OF THE TANK AS POSSIBLE.
  8. THE VACUUM BREAKER INLET LINES TO BE PROVIDED WITH LOOPS TO PREVENT DUST ACCUMULATION.

PROC APERTURE CARD

3:0 X

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
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9		
10		

SYMBOL	DESCRIPTION
(Symbol)	CONCENTRATED BORIC ACID
(Symbol)	DEMINERALIZED WATER
(Symbol)	HYDRAZINE
(Symbol)	LITHIUM HYDROXIDE
(Symbol)	WASTE COLLECTION
(Symbol)	LOCAL SAMPLE
(Symbol)	VENT
(Symbol)	OVERFLOW
(Symbol)	ISOLATION VALVE
(Symbol)	VACUUM BREAKER
(Symbol)	LEVEL TRANSMITTER
(Symbol)	FLOW METER
(Symbol)	STOP VALVE
(Symbol)	PLUG VALVE
(Symbol)	MANUAL VALVE
(Symbol)	ACTUATOR
(Symbol)	SOLENOID
(Symbol)	RELAY
(Symbol)	CONTROL VALVE
(Symbol)	INSTRUMENTATION

REACTOR  
AND ASSOC. EQUIPMENT

INLAND PLANT UNITS 1 & 2  
CONSUMERS POWER COMPANY

PIPING & INSTRUMENT DIAGRAM  
REACTOR CHEMICAL ADDITION  
UNIT 1 & 2

7220	M-405 A	4
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RIDS

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