



- NOTES:**
- ADJUST VALVES IN FIELD TO LIMIT PUMP THROUGH THEN LOCK WITH POSITION LOCKING DEVICE.
 - FLOW RESTRICTING ORIFICE TO VERIFY FLOW DURING PREOPERATIONAL TESTING.
 - TEMPORARY BRASSER IS PLACED IN SPOOL PIECE DURING INITIAL PLUMBING OPERATIONS. BRASSER MUST BE REMOVED BEFORE PUMP STARTUP. STAINER AND SPOOL PIECE SHOULD BE DRY.
 - SEE CONNECTIONS ON SHEETS 1.1 & 1.2 FOR COOLING WATER CONNECTION TO SAFETY INJ. PUMPS.
 - REMOVE TELLTALE FOR LEAK ORIFICE INTO WARD CORDED VESSEL.
 - SEE MECHANICAL PIPING SPECIFIC FITTING DRAWING CN-1804-04.
 - IN FLOW RESTRICTING ORIFICE CONSISTS OF A ROUNDED SOCKET NEEDLE PIPE COUPLING REFER TO DWG. CN-2562-1.1.
 - FLOW RESTRICTOR DETAIL ON WESTINGHOUSE CYG. DWG. CN-2562-1.1 AND MECHANICAL PIPING SPECIFIC FITTING DRAWING CN-1804-04.
 - MINIMUM FLOW ORIFICE SUPPLIED WITH PUMP.
 - CONSTRUCTION WITH A DRAIN.
 - REF. DESIGN ENG. POWER PIPING SECTION, EAR NO. APR-67-2.
 - OPEN STAINLESS STEEL DRAIN TO PREVENT DRAIN BACK UP.

DESIGN PARAMETERS

LINE LISTING	PIPE SIZE	PRESSURE	TEMPERATURE	CLASS	MATERIAL
22	2501.2	2750 PSIA	300°F	B	SS
23	2501.4	2750 PSIA	300°F	L	SS
24	1501.4	875 PSIA	200°F	L	SS
25	1501.2	875 PSIA	200°F	B	SS
26	1501.2	2500 PSIA	200°F	B	SS
27	2501.2	2750 PSIA	200°F	B	SS
28	2501.2	2750 PSIA	200°F	B	SS
29	2501.2	2750 PSIA	200°F	B	SS
30	2501.2	2750 PSIA	200°F	B	SS
31	2501.2	2750 PSIA	200°F	B	SS
32	2501.2	2750 PSIA	200°F	B	SS
33	2501.2	2750 PSIA	200°F	B	SS
34	2501.2	2750 PSIA	200°F	B	SS
35	2501.2	2750 PSIA	200°F	B	SS
36	2501.2	2750 PSIA	200°F	B	SS
37	2501.2	2750 PSIA	200°F	B	SS
38	2501.2	2750 PSIA	200°F	B	SS
39	2501.2	2750 PSIA	200°F	B	SS
40	2501.2	2750 PSIA	200°F	B	SS
41	2501.2	2750 PSIA	200°F	B	SS
42	2501.2	2750 PSIA	200°F	B	SS

REVISIONS

NO.	DATE	BY	CHKD	DATE	APPR	SCALE	INSPECTED
13	REV PER CE-6010B	EDS	JCS	3-31-67	KLE	1/8"	KLE
12	REV PER CE-6010A, & EDL	EDS	JCS	3-13-67	KLE	1/8"	KLE
11	APPROVED AND RELEASED	EDS	JCS	3-13-67	KLE	1/8"	KLE
10							
9							
8							
7							
6							
5							
4							
3							
2							
1							

ANSTEC APERTURE CARD

FORM CE-4023
CP-908

QA CONDITION 2	QA CONDITION 1
DUKE POWER COMPANY CATAWBA NUCLEAR STATION UNIT 2	
FLOW DIAGRAM OF SAFETY INJECTION SYSTEM (F1)	
DESIGNED BY: []	DATE: 3-13-67
DRAWN BY: []	DATE: 3-13-67
CHECKED BY: []	DATE: 3-13-67
SCALE: []	DATE: 3-13-67
DWG. NO. CN-2562-1.2	

ERN:CN2562-1.2

PDR RIDS

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