12177-PID-40F-10

MARK NUMBER	VALVE DESCRIPTION	SIZE	NO. OF VALVES
ADV71A,B,179,	VPV815-HC-4JEQ	1-1/2"	3
ADV134,169	VPV815-HC-4JEQ	3/4"	2
ADV132	VPV815-HC-4JEQ	3"	1
ADV147,187,218	VPS815-H-4Q	1-1/2"	3
ADV226	VPV815-HQ-4KQ	3"	1
ADV232	VPV815-HC-4JEQ	3/4"	1
ADV246	VPV815-HB-4Q	1"	1
ADV247	VPF815-EC-4RQ	3"	1
SOV654A,B	VQ5150-WO-4Q	1"	2
SOV297	VQ5150-WO-4Q	3/4"	1
V99,438,439,531,532,581, V712,813,814,860,788	VCS060-E-4	3/4"	10
V661, V788,859,986	VPS815-H-4	3/4"	4
V364,365,489	VPV815-HC-4JE	1"	3
V366,368,1810 V1811,1812,1813	VPF815-PB-4R	1-1/2"	6
V367,369,499,588,581 V583,589,619,516,617 V650,691,879,988	VPW815-HC-4JE	3/4"	14
V373	VPW815-HC-4JE	1-1/2"	1
V493	VPS815-H-4	1-1/2"	1
V498	VCS060-J-4	1-1/2"	1
V477,478	VCV060-B-4J	1"	2
V495	VCV060-B-4J	1-1/2"	1
V497,498,582,584 V584,615	VPF815-PB-4R	3"	6
V742,743,744,745	VPS815-HB-4	1"	4
V776,777	VPW815-HC-4JE	1"	2
V526,527,750,751,752	VPS815-HB-4	3/4"	5
V539	VPS815-HB-4	2"	1
V530	VPW815-HQ-4K	3"	1
V536,615	VCS060-J-4	2"	2
V735,614	VCV060-B-4J	1-1/2"	2
V378,595	VPV815-HC-4JE	1-1/2"	2
V647	VCS060-J-4	2"	1
V611	VCF815-B-4R	1"	1
V581,871	VPS815-SC-4	3/4"	2
V689	VPW815-J-4K	2"	1
V768	VPW815-HC-4JE	1"	1
V688	VCV060-B-4J	3/4"	1
V214	VCV060-B-4J	3/4"	1
V494	VPV815-HC-4JE	1-1/2"	1
V946	VPF815-FA-4R	3"	1
V585,586,523,532,534, V535,644,659,709	VPS815-HB-4	3/4"	9
V547,528,531,529,767	VPS815-HB-4	1"	5
V672	VCF815-B-4R	3/4"	1

NOTES,

1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2LWS-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
2. ALL PIPING IS CL153 UNLESS OTHERWISE SHOWN.
3. ALL INSTRUMENT, TEST, VENT AND DRAIN CONNECTIONS ARE 2" UNLESS OTHERWISE NOTED.
4. ALL INSTRUMENT FLUSH CONNECTIONS ARE 3/4".
5. HEAT TRACING TO BE REDUNDANT FOR BOTH PROCESS AND CAUSTIC LINES AND TO MAINTAIN 125°F ±5°F MIN FOR PROCESS LINES AND 70°F MINIMUM FOR CAUSTIC LINES.
6. TEMPORARY STRAINER TO BE REMOVED AFTER LINE CLEANING.
7. ⟷ DENOTES DISSIMILAR METAL WELD.
8. ALL TEMPERATURE INSTRUMENT CONNECTIONS ARE 1-1/4" UNLESS OTHERWISE NOTED.
9. ⟷ DENOTES " LOCATE AS CLOSE AS POSSIBLE."
10. LOCATE V582, 584, 588 & V489 AS CLOSE AS POSSIBLE TO EVAPORATOR.
11. V366 & 369 ARE TO BE LOCATED AS CLOSE AS POSSIBLE TO TANK OR PROCESS LINE.
12. + DENOTES 6" MIN PIPE BUTT WELDED TO VALVE;
13. CLASS 156 SHOULD BE USED TO SAME ELEV. AS INCOLOY 825 IN EVAPORATOR.
14. LOCATE INSTRUMENT CONNECTION AS CLOSE TO THE TEE AS POSSIBLE AND TO BE TOP MOUNTED.
15. NO FLAG SHOWN ON CORRESPONDING DOCUMENT. COORDINATES PROVIDE INTERFACE LOCATION.

THIS DRAWING CREATED ELECTRONICALLY

07-141-91

QA CAT II

SI APERTURE CARD

PIPING & INSTRUMENTATION DIAGRAM
RADIOACTIVE LIQUID WASTE SYSTEM
NINE MILE POINT NUCLEAR STATION-UNIT 2
NIAGARA MOHAWK POWER CORPORATION
STONE & WEBSTER ENGINEERING CORPORATION
CHERRY HILL, N.J.

DRAWING NUMBER 12177-PID-40F-10

DESIGNED BY D.REESE DRAWN BY D.REESE
CHKD BY E.CURRAN CHKD BY E.CURRAN

AREAS LEVELS WORK TYG

ISSUE 0

APPD BY T.HADDEN
APPD BY W.SEIBERT

SEE DRAWING MICROFILM RECORDS FOR PRIOR ISSUES

ISSUE	DESCRIPTION	CHKD	CORRECT	ISSUE
6	INCORPORATES ECN NO. LWS-112	JWR	JAV/MM TLO TLO; PSM/MS PSM MM; KV	5
5	INCORPORATES ECN NO. LWS-111	JWR	MKA/TLO TLO JTS; PSM/MS PSM RES; MSS	10
10	INCORPORATES ECN NO. LWS-674 MOD. NO. PN2Y86MX184	MI BAL NMPC		9
9	INCORPORATES EDC NO. 2M80358	KAH JSM NMPC	JRM 3-29-89; LJB 3-31-89	8
8	INCORPORATES ECN NO. LWS-679	MI BR BAL NMPC	MBK (EA-A-C-) 12-7-88	7
7	ISSUED FOR COMPUTER DATA BASE UPDATE ONLY	RJB RAS NMPC	RVH 7-7-88; JRB 7-15-88	

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