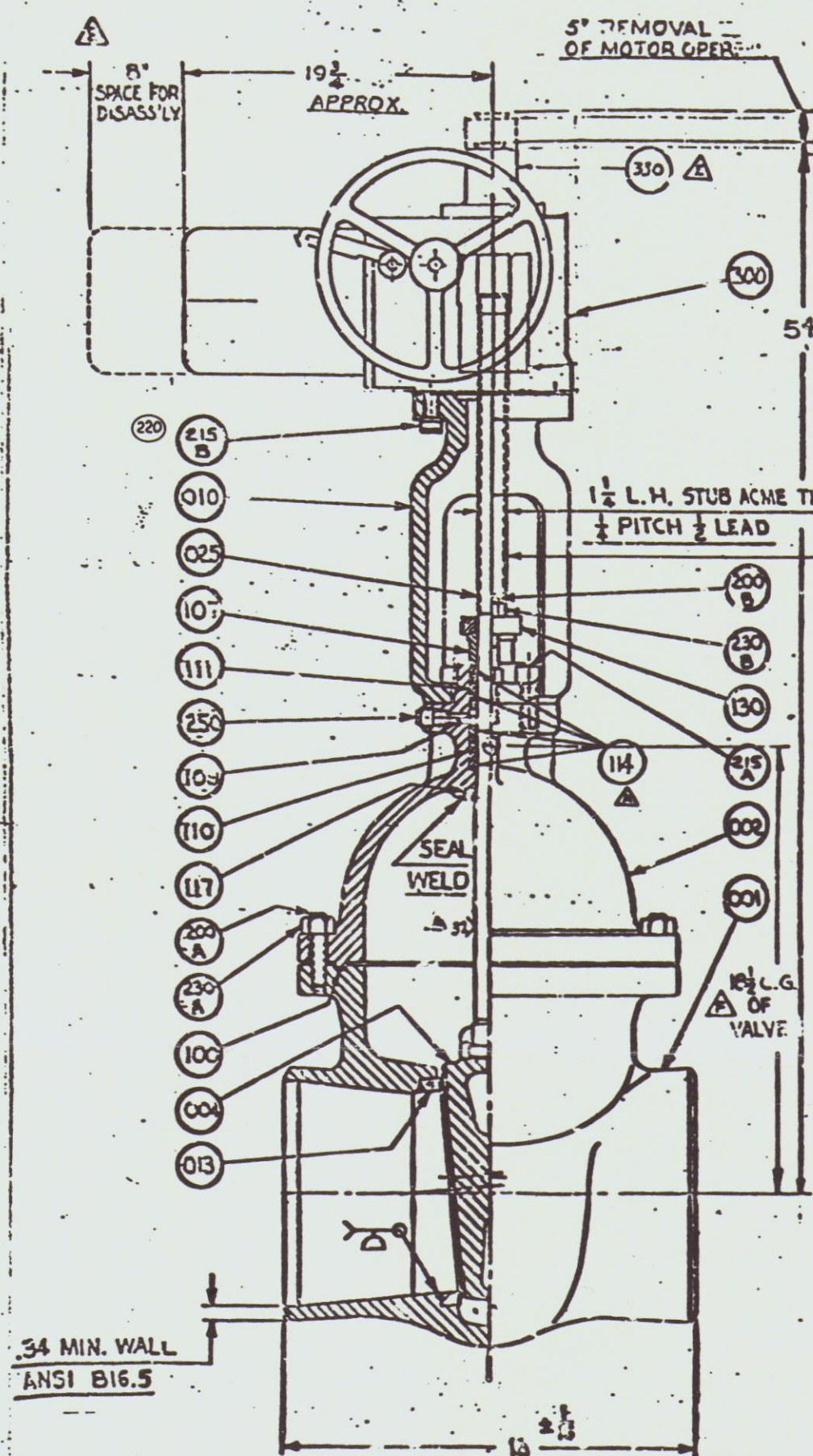


P221B-139

30x

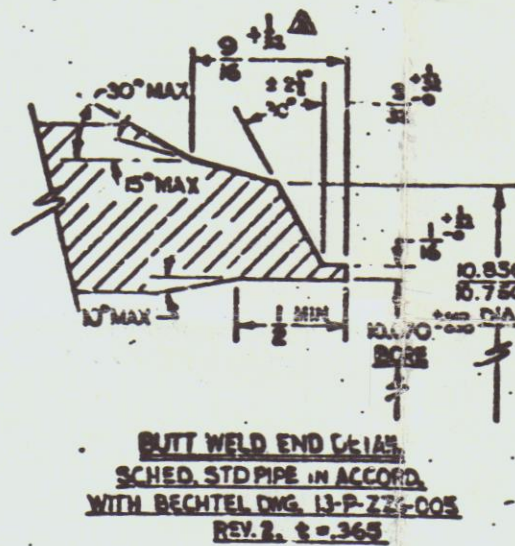
I certify that the image contained on this frame was made in the normal and regular course of business and that it is an accurate reproduction of the document submitted for microfilming.

Camera Operator
Date
Film Date



GENERAL NOTES:

1. VALVE DESIGN IN ACCORDANCE WITH ASME BOILER & PRESSURE VESSEL CODE SECTION III, NUCLEAR POWER PLANT COMPONENTS CLASS 2, 1979, WITH SUPPLEMENTAL 1979 AND RECENT SPECIFICATION NUMBER 13-PM-2218.
2. HYDROSTATIC TESTS PER PG 6000 AND MSS SP-61:
A. SEAL TEST PRESSURE: 425 PSI
B. SEAT TEST PRESSURE: 500 PSI
C. SEAT LEAKAGE RATE: 20 CC/IN. MIN.
3. NONDESTRUCTIVE EXAMINATION PER PG 2000:
A. RADIOGRAPHY OF CAST BODY, BOPES, BUTT WELD ENDS AND DISC: YES
B. MAGNETIC PARTICLE EXAMINATION CAST BODY, BOPES, AND DISC: NO
C. LIQUID PENETRANT EXAMINATION VALVE, PACKED WELD JOINT SURFACES, HARDFACED SURFACES AND BOLT HEAD ADJACENT TO HARDFACED SURFACES.
4. WEIGHT OF VALVE ASSEMBLY: 915 LBS.
5. ALTERNATE MATERIALS:
A. A 314 4102
B. A 106
C. A 108
D. A 117
E. A 216
F. A 218
G. A 318
H. A 318
6. FOR BOLTING TORQUE AND FASTENER MAT'L'S SEE MOV DWG 13-225-220.
7. TORQUE AND/OR THRUST STRAIN GAUGES MAY BE MOUNTED TO THE STEM IN THE ACCESS AREA OF THE VALVE YOK. THE SENSOR IS USED FOR MOV DIAGNOSTIC TESTING AND WILL NOT IMPACT THE OPERATIONS OF THE VALVE. REFER TO TABLE 1 FOR THOSE VALVE APPLICATIONS THAT MAY HAVE INSTALLED STRAIN GAUGES.



BUTT WELD END CALIB.
SCHED. STD PIPE IN ACCORD
WITH BECHTEL DWG. 13-P-221-005
REV. 2, 2-3-69

REVISED INST. TAG NOS. FROM LAST COMMENTS		DATE	BY	REVISION
DELETED IT. NO. 50, ADDED L.G. OF VALVE.		5/1/73	ST	1
ADDED SPACE FOR DISASSEMBLY		5/30/73	ST	2
NOTE: SA WAS 3A 350 LF2 ADDED NOTE SA TO ITEMS 225, 107 AND 109. ADDED ITEM 330. OVERALL WAS 32		5/30/73	ST	3
LTC		REVISION	DATE	BY
220 WAS 225 ADDED INST. TAG NOS. WAS 5MB-000 MOTOR OPER. MAT'L WAS LCB FOR BODY BOPES AND DISC		5/30/73	ST	4
NOTE: SA WAS 3A 350 LF2 ADDED NOTE SA TO ITEMS 225, 107 AND 109. ADDED ITEM 330. OVERALL WAS 32		5/30/73	ST	5
AD. ED. BTL. DATA SHT NO. 12, IN WAS 1075, ADDED SHT 5.5. ADDED 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126		5/30/73	ST	6

NOTE	ITEM NO.	DESCRIPTION	MAT'L SPEC. ASSN. "SA" "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"
SA	01	KEY	SA 216 WCB
SA	02	KEY	SA 216 WCB
SA	03	DISC (CO-2-A FACED)	SA 216 WCB
SA	04	YOK	A 216 WCB
SA	05	SEAT RING (CO-2-A FACED)	SA 515 GR 70
SA	06	STBN	A 479 TY 410
SA	07	GASKET (FLEXITALLIC, STYLE R-3)	SA 304/304S
SA	08	GLAND	A 479 TY 410
SA	09	LANTERN RING	A 479 TY 410
SA	10	PACKING (LOWER)	JOHN CRANE 241
SA	11	PACKING (UPPER)	JOHN CRANE 241
SA	12	BACKSEAT BUSHING (CO-2-A FACED)	SA 103
SA	13	GLAND FLANGE	A 36
SA	14	STUD (W/NET) TORQUE 125 FT.-LBS.	SA 193 21
SA	15	GLAND STUD	A 193 21
SA	16	CAPSCREW (YOK) TORQUE 130 FT.-LBS.	A 574
SA	17	FOR BOLTING TORQUE AND FASTENER MATERIALS, SEE MOV DWG 13-225-220	
SA	18	NUT (BOPES)	SA 193 21
SA	19	NUT (GLAND STUD)	A 193 21
SA	20	PLUG (LEAK-OFF COIN.) 1/2" N.P.1.	A 105
SA	21	W/PLATE	A 240 TY 378
SA	22	MOTOR OPERATOR (LIMITORQUE)	58-00-15
SA	23	PACKING (END RING)	JOHN CRANE 16156F
SA	24	W/PL. PLUG MOTOR	CAST STL.
SA	25	FOR BOLTING TORQUE AND FASTENER MAT'L'S, SEE MOV DWG 13-225-220	

TABLE 1:

VALVE ID	MODEL NUMBER	MFR	INSTALLATION/ CALIBRATION REFERENCE
13JWCA-UV-62	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-63	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-64	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-65	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-66	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-67	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-68	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-69	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-70	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-71	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-72	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-73	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-74	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-75	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-76	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-77	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-78	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-79	TES-PH0T350	TELEDYNE	VTH-1084-0001
13JWCB-UV-80	TES-PH0T350	TELEDYNE	VTH-1084-0001

13-10407-P221B-3.02-133

13JWCA-UV-62	62	220	13-J-082-013	Q18
13JWCB-UV-63	63	220	13-J-082-012	Q18
13JWCB-UV-64	64	220	13-J-082-092	Q18
INST. TAG	65	220	13-J-082-092	Q18
UNITS 225	66	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	67	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	68	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	69	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	70	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	71	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	72	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	73	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	74	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	75	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	76	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	77	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	78	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	79	220	13-J-082-092	Q18
ANCHOR/DARLING VALVE CO.	80	220	13-J-082-092	Q18

PALO VERDE NUCLEAR GENERATING STATION

UNITS 2, 3, 4

ANCHOR/DARLING VALVE COMPANY

10"-150" GATE VALVE (CB)

BOLTED BONNET, BUTT WELD ENDS

DOUBLE PACKING, 58-00 MOTOR OPER.

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY

ANCHOR/DARLING VALVE COMPANY