



PARTS LIST/MATERIAL LIST

QTY REQD										PARTS / DASH NUMBER	NOMENCLATURE/DESCRIPTION	MATERIAL/REFERENCE	SHEET	ITEM NO		
-130	-120	-110	-090	-080	-070	-060	-050	-040	-030							
										1	-020	ASSEMBLY, VACUUM RELIEF CONTROLLER 0.5 IN WG		1	1	
											-030	ASSEMBLY, LOWER SECTION		2	2	
											-040	ASSEMBLY, COVER		2	3	
											-040	ASSEMBLY, AIR INLET		3	4	
											-050	ASSEMBLY, HOUSING		2	5	
											-060	ASSEMBLY, CONTROLLER (0.5 IN WG)		3	6	
											-070	SUBASSEMBLY, MOUNTING FLANGE		3	7	
											-080	ASSEMBLY, CONTROLLER (5.0 IN WG)		1	8	
												PLATE, 1/2" THK	ASTM A240 304 OR 304L		9	
												SHEET, .0625 THK (16 GA)	ASTM A240 304 OR 304L		10	
												SHEET, .031 THK (22 GA)	ASTM A240 304 OR 304L		11	
											-001	O-RING FLANGE, PLATE, 3/4"	ASTM A240 304 OR 304L	3	12	
												PLATE, 1/8" THK	ASTM A240 304 OR 304L		13	
												TUBING, ROUND, 1" OD (.10 WALL) X 12" L	ASTM A269 304 OR 304L		14	
												TUBING, ROUND, 1" OD (.065 WALL) X 12" L	ASTM A269 304 OR 304L		15	
												PLATE, 1" THK	ASTM A240 304 OR 304L		16	
												O-RING, .275 WIDE, NITRILE (BUNA-N) X 12.475 I.D.	COML AS-3578-454		17	
												ROUND BAR, #3/8"	ASTM A276 304 OR 304L		18	
												ROUND BAR, #1/4"	ASTM A276 304 OR 304L		19	
												BOLT, HYX HEX, 3/8"-16UNC-2A X 1" L	ASTM A193 GR B8		20	
												NUT, HEX, 3/8"-16UNC-2B	ASTM A194 GR 8		21	
												WASHER, FLAT, 3/8"	ANY GRADE SST		22	
												GASKET, 3/16" THK, 30-40 DURO, TEMPLATE FROM DETAIL 1	NEOPRENE		23	
												PLATE, 3/4" THK	ASTM A240 304 OR 304L		24	
												1/4" HALF COUPLING, NPT THD, CL 3000 WITH 1/4" PLUG (HEX HEAD) CL 3000	ASTM A182 304 OR 304L		25	
												PLATE, 1/4" THK	ASTM A240 304 OR 304L		26	
												INLET SCREEN		3	27	
												WIRE MESH 1/16" DIA 1/2" X 1/2" OPENINGS	ANY GRADE SST		28	
												LOCKING STRAP	SST COML 316		3	29
												WELD-ON FIXED PADLOCK-EYE HASP	SST COML 316		30	
												ASSEMBLY, VACUUM RELIEF CONTROLLER 5.0 IN WG		1	31	
												WEIGHT FOR 2.5 IN WG		1	32	
												WEIGHT FOR 0.5 IN WG		3	33	
												ASSEMBLY, PLATE ATTACHMENT		2	34	

CONTINUED ON SHEET 2

GENERAL NOTES: (UNLESS OTHERWISE NOTED)

- MATERIALS USED FOR PRESSURE BOUNDARY HOUSING SHALL BE VERIFIED TO MEET THE ASTM STANDARDS CALLED OUT IN THE "MATERIAL LIST". THESE COMPONENTS SHALL BE VERIFIED AND EITHER A CERTIFIED MATERIAL TEST REPORT FOR METALLIC MATERIALS OR A CERTIFICATE OF COMPLIANCE FOR ALL OTHER MATERIALS FROM THE FABRICATOR COVERING THE APPLICABLE MATERIAL AS SPECIFIED.
- WELD AND INSPECT JOINTS AND SEAMS IN ACCORDANCE WITH AWS D1.6 AND AWS D9.1 AS APPLICABLE. VISUAL EXAMINATION OF ALL WELDS ON FINAL PASS. WELD QUALIFICATIONS AND PROCEDURES PER ASME SECTION IX ARE ACCEPTABLE.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5-1982. DIMENSIONS ARE IN INCHES. SHEET METAL TOLERANCE SHALL BE ±1/8" FRACTIONAL ±0.003 DECIMAL AND ANGULAR ±3° UNLESS OTHERWISE SPECIFIED. MACHINING TOLERANCES ±1/16" UNLESS OTHERWISE SPECIFIED.
- REMOVE ALL BURRS AND BREAK SHARP EDGES.
- MAKE NAMEPLATE (ANY 300 SERIES SST) WITH MANUFACTURER NAME, FABRICATION DATE (MONTH/YEAR), DRAWING NUMBER H-14-106608, CAPACITY (OBTAIN VALUE FROM CUSTOMER ENGINEER REPRESENTATIVE), AND MANUFACTURER'S UNIQUE IDENTIFICATION (SERIAL) NUMBER. ETCH OR STAMP WITH 1/8" TO 1/4" HIGH LETTERING. TACK WELD NAMEPLATE TO HOUSING.
- TO ADJUST VACUUM RELIEF/CONTROLLER SETTING (THE DIFFERENTIAL PRESSURE AT WHICH THE CONTROLLER WILL OPEN FOR VACUUM RELIEF/CONTROL), ADD OR REMOVE THE DESIRED NUMBER OF WEIGHTS AT THE BOTTOM OF THE CONTROLLER ASSEMBLY. THE WEIGHTS ARE DESIGNED TO STACK ON EACH OTHER ON THE BOTTOM OF THE CONTROLLER ASSEMBLY. THE SETTING IS EQUAL TO THE SUM OF THE DIFFERENTIAL PRESSURE MARKINGS IN INCHES WATER GAGE (IN WG) STAMPED/ETCHED ON THE CONTROLLER AND ON EACH WEIGHT. UNUSED WEIGHTS SHOULD BE STORED ON THE WEIGHT STORAGE HOOKS PROVIDED.

MAY 18 2011

DATE: 5/11/11

DESIGNED BY: K. Diener

CHECKED BY: [Signature]

DATE: 5/11/11

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
Office of River Protection

TANK VACUUM RELIEF AND CONTROL DEVICE

REV: 241G 8901 H-14-106608 2

DATE AS SHOWN: 821235 SHEET 1 OF 1

DWG NO	TITLE	REF NUMBER	TITLE
241G	TANK VACUUM RELIEF AND CONTROL DEVICE		
DRAWING TRACEABILITY LIST			
NEXT USED ON END ITEM			
REVISIONS			
NO	DATE	DESCRIPTION	BY
2	5/11/11	DIRECT REV PER ECN-11-000586	[Signature]