

GENERAL CONSTRUCTION NOTES

- (1) ALL COLUMNS TO HAVE 1" Ø ANCHOR BOLTS WITH 3" THREAD PROJECTION ABOVE BASE OF STRUCTURE
- (2) MAIN STRUCTURE TO BE OF WELDED CONSTRUCTION
- (3) STRUCTURE TO BE FITTED WITH BUG & HAIL SCREENS
- (4) (3) ONLY ACTUATORS – FISHER TYPE 656 SIZE 40 WITH NO VALVE POSITIONER
- (5) (2) ONLY VIBRATION SWITCHES – MURPHY MODEL NO. VS-2EX (EXPROOF) INSTALLED FOR SHIPPING
- (6) PAINT: (a) COMMERCIAL SANDBLAST TO SSPC-SP6 (CARBON STEEL ONLY)
(b) ONE COAT EPOXY ESTER PHENOLIC SHOP PRIMER VALSPAR 13-Y602 (YELLOW/BUFF) 1-2 MILS DFT
(c) TWO COATS M & F ENAMEL VALSPAR 20 SERIES (BLACK) 1-2 MILS DFT

NOTE: NO PAINT REQ'D ON STAINLESS STEEL HEADERS.

- (7) N.D.E. EXAMINATION
- a) DYE PEN. ALL BEVELED EDGES OF TUBESHEETS, PLUG SHEETS AND NOZZLE CUT OUTS.
 - b) DYE PEN. EXPOSED CUT EDGES ON TUBESHEETS AND PLUG SHEETS AFTER WELDING.
 - c) FULL U.T. LONG SEAMS AND END PLATE WELDS
- (8) FABRICATION TOLERANCES TO API 661

☒ APPROVED
☐ APPROVED AS NOTED
☒ REVISE AND RESUBMIT
☐

By: [Signature] Date: 8/23/96
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APPROVAL DOES NOT WAIVE SUPPLIER'S
 RESPONSIBILITY FOR COMPLIANCE WITH
 THE REQUIREMENTS OF THE DRAWINGS
 AND SPECIFICATIONS

MACDONALD ENGINEERING
 GROUP LTD.
 CALGARY ALBERTA

COLUMN BASE LOADS (LBS)

COLUMN	W		X		Y	
DIRECTION	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ
MINIMUM LOAD	-322	—	-644	—	-322	—
MAXIMUM LOAD	14530.9	8370.8	27561.9	16491	13780.9	8370.8
WIND LOAD BASED ON 26.73 PSF (1.28 kPa)						
SNOW LOAD BASED ON 36.54 PSF (1.75 kPa)						

MATERIAL LIST

LINE	PART	MATERIAL
1	TUBES	SA-249-316L
2	HEADER PLATE	SA-240-304L
3	FLANGE	SA-182-F304L
4	PIPE	SA-312-304L
5	FORGED TRANSITION	---
6	ELBOW	---
7	SHOULDER PLUGS	304 S/S
8	GASKETS	C1010/20 (CARBON STEEL)
9	STEAM COIL FLANGE	SA-105N
10	STEAM COIL PIPE	SA-106-B
11	STEAM COIL TEE	SA-234-WPB
12	STEAM COIL THREDOLET	SA-105
13	STRUCTURAL STEEL	A-36
14		
15		
16		

DESIGN CONDITIONS

SERVICE	GAS COOLER
ITEM NUMBER	E-1
DESIGN PRESSURE	1480 PSI
HYDRO TEST PRESSURE	2220 PSI
DESIGN TEMPERATURE	200 °F
MDMT	-40 °F
CORROSION ALLOWANCE	0.125"
NUMBER OF PASSES	TWO
BARE SURFACE (TOTAL)	2935 SQ FT
STRESS RELIEVE	NO
N.D.E. EXAMINATION	SEE NOTE #7
SECTION WEIGHT	23000 LBS
CU. FT. CAPACITY	52.2 CU FT
NUMBER OF SECTIONS	ONE
TOTAL EMPTY WEIGHT	53600 LBS
WEIGHT FULL OF WATER	56860 LBS

MATERIALS & DESIGN CONDITIONS



EXCHANGER INDUSTRIES

CALGARY, ALBERTA

DWG NO. 96-5425

SHEET 1A OF

DWN	BG	CKD	DSL
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