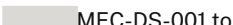
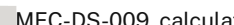
 TORUS	· Owner MECHANICAL EQUIPMENT LIST			Document No.	MEC-LST-002
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Rev.	Date	Revision description	Prepared	Reviewed	Approved
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NOTES

1. This is the controlling list of mechanical equipment, with design data, dimensions, final plot coordinates ( MEC-DWG-001, Plot Plan) and the weights for foundation design. Tags follow  GEN-DB-001, Basis of Design, Section 8.1 and  PRO-LST-101, P&ID Line and Tag Register.
2. Weights are taken from the equipment datasheets  MEC-DS-001 to  MEC-DS-009, calculated from plate and pipe geometry where it is defined; other values are typical and shall be confirmed with vendor data (HOLD H-15). Operating weight includes normal liquid and gas at 1,440 psig; test weight is full of water. H-101 operating weight includes the bath (water and glycol, SG 1.04).
3. V-101 saddles are at X 78.5 ft (sliding) and X 89.5 ft (fixed, nearest the quick-opening closure). Split the weights equally between saddles and add the nozzle loads of  MEC-CAL-004.
4. PR-101 sits on two saddles plus a closure-end support; the closure end carries the 16 in closure (about 1,650 lb) and pig handling loads (in-line inspection tool about 1,000 lb, HOLD H-16).
5. The H-101 test weight assumes a full bath while the coil is water filled. The coil is normally tested with the bath empty, so the operating case governs the foundation.
6. The SK-110 weight includes the meter runs, motor-operated valves, ultrasonic meters and skid steel; the canopy is by the structural discipline.
7. The telecom mast ANT-201 (50 ft breakpoint monopole with a fall radius of 20 ft or less, at (150, 22)) and the receiving pipeline operator's demarcation panel JB-W01 (north fence, (214, 197.5)) appear on the plot plan only; they are instrumentation and electrical items.

EQUIPMENT

Table 1-1: Equipment, Size and Location

Tag	Description	Size / dimensions	Centre (X, Y) ft	Datasheet
PR-101	Inlet pig receiver, NPS 12 x NPS 16 barrel, 16 in QOC with pressure warning interlock	22 ft overall incl. closure; barrel CL 3.0 ft above grade	(35, 40)	 MEC-DS-002
V-101	Horizontal two-barrel filter separator, coalescing elements + vane pack, NPS 24 x 14 ft liquid barrel	42 in ID x 15 ft S/S + NPS 24 x 14 ft barrel; about 19 ft overall; shell CL EL 1158.5	(84, 40)	 MEC-DS-001
SK-110	Meter skid: MR-110, MR-120 (NPS 10 AGA 9 meter tubes, FE-111/121, FC-111/121), headers, MOV-111/112/121/122/115, canopy by STR	48 ft x 14 ft skid	(84, 97)	 MEC-DS-009
H-101	Indirect water-bath line heater, API 12K, 6.0 MMBtu/h firebox, NPS 6 coil 3 paths x 5 passes, natural draft, BMS-150	96 in shell x 29 ft; about 34 ft x 9.5 ft overall	(192, 140)	 MEC-DS-003

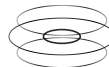
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Tag	Description	Size / dimensions	Centre (X, Y) ft	Datasheet	
FG-101	Fuel gas skid: filter, E-161 electric preheater, PCV-161/162, PSV-161, FT-163, SDV-165 (loose)	8 ft x 6 ft	(95, 55)	FG-101 vendor datasheet (PRO-CAL-010)	
E-161	Fuel gas electric preheater on FG-101, 5 kW rated, outlet setpoint 105 F, explosion-proof	on FG-101 skid	(95, 55)	FG-101 vendor (HOLD H-15)	
VS-101	Vent stack NPS 8, 25 ft above grade, open vertical discharge	NPS 8 x 25 ft, base plate on drilled pier	(40, 160)	MEC-DS-005	
T-101	Liquids tank, vertical cone roof, API 12F, PVRV-193 / FA-193 NPS 6, EV-193 16 in emergency vent, LT-191, LSHH-192	9.5 ft OD x 8.0 ft, 101 bbl nominal	(30, 100)	MEC-DS-004	
B-101	Analyzer shelter, fiberglass, heated and ventilated, interior Class I Div 2	12 ft x 10 ft	(118, 118)	SPC-SPC-016 / MEA	
B-102	Control and electrical building, prefabricated steel	24 ft x 12 ft	(215, 25)	SPC-SPC-016 / ELE	
G-101	Standby natural-gas generator with ATS (ELE)	10 ft x 5 ft enclosure	(185, 22)	ELE	
XF-101	Utility pad-mount transformer (utility owned)	6 ft x 6 ft pad	(240, 8)	ELE	

Table 1-2: Design Data and Materials

Tag	Design	Main materials
PR-101	ASME VIII Div. 1; 1,440 psig @ -20/150 F (flange-limited 1,420 @ 150 F); CA 1/16 in	SA-333 Gr 6 barrels, A105N / A350 LF2 forgings
V-101	ASME VIII Div. 1; 1,440 psig @ -20/150 F; MDMT -20 F; CA 1/16 in	SA-516-70N shell 1.75 in, heads 1.625 in min; barrel NPS 24 x 1.0 in; PWHT
SK-110	A6: 1,440 psig; shop test 2,160 psig	API 5L X52 PSL2, WPHY-52, A105N
H-101	Coil 1,440 psig @ 250 F, Class 900 RF nozzles; shell atmospheric	Coil SA-106 B / SA-333-6 Sch 80
FG-101	Inlet A6 1,440 psig; outlet A1 285 psig	CS, 316 SS tubing
E-161	1,440 psig @ -20/250 F	CS / 316 SS
VS-101	S1 275 psig @ -150/100 F	A312 TP304/304L Sch 40S (spec S1), helical strakes top 8 ft
T-101	Atmospheric, 16 oz/in2 / 0.4 oz/in2 vac	Carbon steel
B-101	-	FRP
B-102	-	Steel
G-101	Fuel 1 in A1 (1052)	-
XF-101	-	-

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WEIGHTS FOR FOUNDATION DESIGN

Table 1-3: Equipment Weights

Tag	Empty lb	Operating lb	Hydrotest lb
PR-101	5,456	5,588	6,673
V-101	29,529	31,161	41,642
SK-110	36,731	37,255	41,572
H-101	45,324	97,960	101,284
FG-101	3,800	3,850	3,900
E-161	incl. FG-101	-	-
VS-101	1,183	1,183	1,183
T-101	3,755	39,140	39,140
B-101	7,500	7,500	7,500
B-102	19,000	19,000	19,000
G-101	3,400	3,500	3,500
XF-101	2,600	2,600	2,600

