



NO.	SIZE	THK.	RATING	PROJ.	FRON.	€	SERVICE
N9	2	SCH. 80	SORF	#150	9"		SAMPLE NOZZLE
N8	6	SCH. 40	SOFF	#150	SEE DWG.		VENT
N7	3	SCH. 80	SORF	#150	2" - 2"		LEVEL TRANSMITTER
N6	3	SCH. 80	SORF	#150	2" - 2"		LEVEL TRANSMITTER
N5	1/2	SCH. 80	NPT (M)	#3000	2" - 2"		PRESSURE TRANSMITTER
N4	1/2	SCH. 80	SORF	#150	2" - 2"		SCRUBBER WATER OUT
N3	4	SCH. 40	SORF	#150	2" - 6-3/8"		PRESSURE SAFETY VALVE
N2	1	SCH. 80	SORF	#150	2" - 2"		FRESH MAKE UP WATER IN
N1	1/2	SCH. 7	SOFF	#150	2" - 2"		PROCESS VENT IN

PROPERTY	UNIT	VALUE
OPERATING WEIGHT	lbm / (kg)	8819 / (4000)
EMPTY WEIGHT	lbm / (kg)	6614 / (3000)
INSULATION THICKNESS	inch / (mm)	1.0
INSULATION TYPE		HT / COLD
IMPORTANCE FACTOR		1.0
SEISMIC ZONE		ZONE '0'
ACC. BASED FACTOR (Fv)		2.0
ACC. BASED FACTOR (Fa)		1.6
DESIGN CODE		IBC-2006
WIND SPEED	mph / (kmph)	150 / (241.4)
WIND EXPOSURE CONSTANT		0 / (0)
WIND DESIGN CODE		IBC-2006
IMPACT TESTING		N.A.
HEAT TREATMENT / PWHT		30
NO. OF TRAY		30
TYPES OF TRAY		SIEVE
PROCESS FLUID DENSITY	lbs/ft ³ / (kg/m ³)	59.3 / (950)
PROCESS FLUID		ALCOHOL WATER LIQUID
TEST EFFICIENCY		SHELL/HEAD
RADIOGRAPHY		SHELL/HEAD
DPT/LPT		SPOT / FULL
CORROSION ALLOWANCE	inch / (mm)	0 / (0)
TEST MEDIUM		AIR
PNEUMATIC TEST PRESSURE	psi (kg/MPa)	10.0 / (0.69)
HEAT TREATMENT	Deg f / (Deg c)	32 / (0)
EXTERNAL MAP AT DESIGN TEMPERATURE	psi (kg/MPa)	153 / (10.5)
MAWP AT DESIGN TEMPERATURE	psi (kg/MPa)	9.0 / (0.62)
DESCRIPTION		UNITS
DESIGN CODE		ASME SECTION VIII DIV. 1, EDITION-2004, ADD. 2006

ITEM NO.	DESCRIPTION	QTY.	UNIT	WEIGHT (lbm)	WEIGHT (kg)
25	LARGE OPENING IN EQUIPMENT (COLUMN) SHALL BE FABRICATED AS PER RECOMMENDATIONS OF APPENDIX 1-7(c) OF ASME SEC VIII DIV-1. WELDS SHALL BE GROUNDED TO CONCAVE CONTOUR & INSIDE CORNER OF OPENING ROUNDED TO GENEROUS RADIUS TO REDUCE STRESS CONCENTRATION. WELD SHALL BE LIQUID PENETRANT TESTED.				
24	ALL STAINLESS STEEL PARTS SHALL BE PICKLED & PASSIVATED AS PER SPECIFICATIONS (ME-4-219) AND CARBON STEEL PARTS SAND BLAST CLEANED TO SA 2 1/2 & PAINTED WITH MINIMUM ONE COAT OF EPOXY PRIMER & TWO COATES OF EPOXY FINAL PAINT.				
23	NOZZLE UP TO NPS 3 SHALL BE PROVIDED 2 NOS. GUSSET OF SIZE 1" W x 0.196" THK. AT 90° APART.				
22	ALL NOZZLE FLANGES SHALL BE ENCLOSED WITH 3 mm THK. NACF GASKET & 1.6 MM THK. AISI 304 SHEET, DULY TIED WITH φ 1/8" AISI 304 WIRE TO AVOID ENTRY OF FOREIGN MATERIALS DURING TRANSPORTATION/STORAGE.				
21	AFTER PNEUMATIC TEST EQUIPMENT SHALL BE CLEANED THOROUGHLY.				
20	TAG NOS., AS GIVEN IN THE TITLE BLOCK TO BE STENCILED ON EQUIPMENT @ GIVEN ORIENTATION.				
19	VOID				
18	CARBON STEEL BLIND FLANGES ALONG WITH RING GASKET (1/8" THK.) TO BE USED DURING PNEUMATIC TEST.				
17	PNEUMATIC TEST AT SHOP SHALL BE CARRIED OUT IN HORIZONTAL POSITION.				
16	VOID				
15	ALL R.F. PAD VENT HOLES SHALL BE PNEUMATICALLY TESTED @ 15 psi (kg) & CHECKED WITH SOAP SOLUTION.				
14	A ATTACHMENT WELDS OF ANY PERMANENT ATTACHMENT TO SHELL/DISH SHALL BE PENETRANT TESTED.				
13	THE ROOT & FINAL PASS OF ALL CLOSING SEAMS OR INACCESSIBLE BUTT WELDS SHALL BE PENETRANT TESTED.				
12	ALL WELD OVERLAY SHALL BE OF PARENT MATERIAL & EXAMINED BY PENETRANT TEST AFTER MACHINING.				
11	PROPER CARE SHOULD BE TAKEN BY SHOP TO PROTECT THREADING OF NIPPLE OR SOCKET.				
10	ALL INSIDE WELDS TO BE FLUSHED AND OUTSIDE WELD JOINTS TO BE GROUNDED SMOOTH.				
9	NOZZLE FLANGES UP TO NPS 24 SHALL BE AS PER ASME B16.5-2003; HALF COUPLINGS WITH PLUG SHALL BE AS PER ASME B16.5-2003.				
8	BOLTING DIMENSIONS FOR NOZZLE FLANGES OF SIZE NPS 26 & ABOVE ARE AS PER ASME B16.47, #150, SERIES A.				
7	ALL MATERIALS SHALL CONFORM TO ASME SEC II PART-D, EDITION 2004, ADDENDA 06. MATERIAL TEST REPORTS (MTR) IS REQUIRED FOR ALL PRESSURE PARTS.				
6	EQUIPMENT IS FOR NON-LETHAL SERVICE AND CYCLIC LOADING & IMPACT SHOCK LOADING ARE NOT APPLICABLE.				
5	STAINLESS STEEL MATERIALS ARE EXEMPTED FROM IMPACT TESTING AS PER UHA S1 (M) AND S1 (H) FOR THE REQUIRED MONT.				
4	PWHT IS NOT REQUIRED FOR COMPLETE EQUIPMENT (EXEMPTED AS PER UHA 32). IF CARBON STEEL FLANGES OVER 38 mm THICKNESS ARE WELDED OF SEGMENTS, THEN PWHT SHALL BE CARRIED OUT AFTER COMPLETE WELDING OF FLANGES ONLY.				
3	ALL HOLE TO STRADDLE WITH PRINCIPLE CENTRE LINE.				
2	NOZZLE PROJECTIONS ARE MEASURED FROM CENTER LINE OF COLUMN OR FIXED REFERENCE LINE UP TO THE GASKET SEATING SURFACE.				
1	ALL DIMENSIONS ARE IN US CUSTOMARY UNITS & THOSE IN BRACKET ARE IN "mm" UNLESS OTHERWISE SPECIFIED.				

NO.	DESCRIPTION	DWG./DOC. NO.	QTY.	UNIT	WEIGHT (lbm)	WEIGHT (kg)
10	TRANSPORTATION SADDLE	06D058-3-WF0508				
09	DESIGN CALCULATION	06D058-CAL-C132				
08	PICKLING & PASSIVATION	MFG-P-219				
07	FABRICATION TOLERANCE SPEC.	06D058-FABTOL-1312				
06	PAINTING SPECIFICATION	STD-4-M-2358				
05	NAME PLATE (NP-FOR PRAJ ADVERTISE)	VOID				
04	NAME PLATE (NP1-FOR DESIGN DATA)	06D058-3-NPD434				
03	SIGHT GLASS / LIGHT GLASS	STD-2-M-2613				
02	TRAY & DOWNCOMER DETAILS FOR (T1 TO T30)	06D058-3-WFD436				
01	FABRICATION DETAILS FOR PROCESS VENT SCRUBBER	06D058-1-WFD434				

NOMENCLATURE :-

B/F.	= BLIND FLANGE	I.D.	= INSIDE DIAMETER	SOFF	= SLIP ON FLAT FACE
B.T.L.	= BOTTOM TAN LINE	L.J.FF.	= LAP JOINT FLAT FACE	SORF.	= SLIP ON RAISE FACE
C/L.	= CENTER LINE	N.A.	= NOT APPLICABLE	THK.	= THICKNESS
DRG.	= DRAWING	N.T.S.	= NOT TO SCALE	T.T.L.	= TOP TAN LINE
G.A.	= GENERAL ASSEMBLY	S.F.	= STRAIGHT FACE	W.L.	= WELD LINE

CLIENT : LOUISIANA GREEN FUELS LLC.
 PLANT : 22.45 MGPY DEHYDRATED ETHANOL (UNDENATURED)
 LOCATION : LA CASSINE, LOUISIANA, USA

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ORIGINAL

GENERAL ASSEMBLY DRAWING FOR PROCESS VENT SCRUBBER (C-1312)

DWG. NO. 06D058 - 1 - GAD434
 SHEET 1 OF 1
 I.D. NO. C-1312
 SCALE N.T.S.
 REV. 4
 PIL JOB CODE 06D058
 CAD FILE NAME 06D058-1-GAD434