



Document Cover Sheet

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	JOB NO.	PURCHASE ORDER NO.		
PO	085354A	P	3205	02
	EQUIP. NO.	Unique No.	Submission	
V.P.	8-V-851	0025	0	

SDR CODE A14

WorleyParsons
resources & energy
REVIEW STAMP
PROJECT NO. 085354A

1. REVIEWED & ACCEPTED. ☐
MANUFACTURE MAY PROCEED.

2. REVIEWED & ACCEPTED AS ☐
MARKED, REVISE & RESUBMIT.
MANUFACTURE MAY PROCEED.

3. REVIEW AS MARKED AND ☐
RE-SUBMIT. MANUFACTURE
SHALL NOT PROCEED.

4. REVIEW NOT REQUIRED. ☒
FOR INFORMATION ONLY.
MANUFACTURE MAY PROCEED.

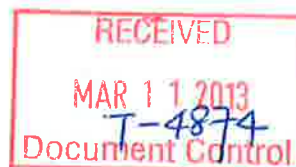
Acceptance in any of these
categories in no way relieves the
Contractor/Supplier of its
responsibility for the use and
proper performance of the Works
in accordance with the
Contract/Purchase Order.



NAME: Ali Rayssi
SIGNED: A. Ra
DATE: 20.03.13

Dacro Job No. :	12-864
Customer :	WorleyParsons
End User:	MEG Energy
Project Title:	Christina Lake Regional Project, Phase II B
Location:	Christina Lake, Alberta
Customer P.O. No. :	085354A-P-3205-02
Vessel Tag No. :	8-V-851
Equipment :	Sour Gas Inlet Separator
Document No. :	12-864-M-2
Description :	Datasheet

Total Number of Pages: 4 (including cover sheet)

Date	Rev.	Description	Submitted By
3/7/2013	0	Original Issue	JW



PRESSURE VESSEL DATA SHEET										Data Sheet No.: 085354-3205-8V851	
Specification No.: 085354-3010-PV-10										Requisition No.: 085354-R-3205-02	
DESIGN DATA										PAINTING & INSULATION	
Service Sour Gas Inlet Separator										External Surface Preparation Per Spec 085354-3010-PC-50 Table 3, System A1	
Operating Temp. Max. 98/Norm 48.5°C Pressure Max. 700/ Norm 275 kPag										Internal Surface Preparation Per Spec 085354-3010-PC-50 (Note 14)	
Design Temp. Min. -29.0 °C Max.: 150.0 °C										Structural Surface Preparation Spec 085354-3010-PC-50 Table 3, S1/S5/S6	
Design Pressure @ Minimum Temperature: 862/FV kPag										Vessel External Prime Per Spec 085354-3010-PC-50 Table 3, System A1	
@ Maximum Temperature: 862/FV kPag										Vessel Internal Prime Per Spec 085354-3010-PC-50 (Note 14)	
Sour Service Yes Lethal Service No										Structural Prime Spec 085354-3010-PC-50 Table 3, S1/S5/S6	
New Vessel MAWP Limited by HEADS @ 866 kPag										Vessel External Finish Per Spec 085354-3010-PC-50 Table 3, System A1	
Corrosion Allowance - Shell / Heads 3.2 / 3.2 mm										Vessel Internal Finish Per Spec 085354-3010-PC-50 (Note 14)	
Wall Thickness - Shell / Heads 12.7 / 10.1 MIN mm										Structural Finish Spec 085354-3010-PC-50 Table 3, S1/S5/S6	
Joint Efficiency - Shell / Heads 1.0 / 1.0										External Insulation - Shell Per Spec 085354-3010-IN-00 (Note 12)	
Registration Alberta Design Code ASME Sec VIII Div.1										External Insulation - Heads Per Spec 085354-3010-IN-00 (Note 12)	
Code Stamp Yes Orientation Horizontal										Internal Insulation N/A	
Post Weld Heat Treatment Required										External Cladding Per Spec 085354-3010-IN-00 (Note 12)	
Head Type 2:1 Semi-elliptical										Insulation - Bottom Head N/A	
Allowable Stress @ Design Temperature 138 000 kPa										Insulation - Skirt N/A	
Ambient Temperature -39 to 39 °C Max Wind Speed 24.9 m/s										Fireproofing - Skirt N/A	
Minimum Metal Design Temperature -29 °C										Fireproofing - Saddles N/A	
Fluid Sour Gas/ Heavy Hydrocarbon/ Produced Water											
MATERIALS										QUALITY CONTROL / INSPECTION / TESTING	
Shell SA516 Gr 70N Repads SA516 Gr 70N										Hydrotest Pressure Per Code kPag	
Heads SA516 Gr 70N Filings SA234 WPB										Hydrotest Medium Water	
Trays N/A Supports SA516 Gr 70N / 300W										Hydrotest Duration Minimum One hrs	
Bolts/Nuts SA193 B7M/SA194 2HM Flanges SA105N										Radiographic Inspection RTI (after PWHT)	
Nozzle-Necks SA106 Gr B Gaskets SPW 316 SS										Ultrasonic Inspection Per Spec 085354-3010-PV-10 (Note 10)	
Internal Lining N/A Pipe SA106 Gr B										Magnetic Particle Inspection Per Spec 085354-3010-PV-10 (Note 10)	
Internals N/A Mist Eliminator N/A										Dye Penetrant Inspection Per Spec 085354-3010-EW-20	
Structural Attachments - External SA516 Gr 70N										Material Mill Test Reports Per SDC	
Structural Attachments - Internal SA516 Gr 70N										Post Weld Heat Treatment Records Per SDC	
Material Impact Test Required Per Code										Hydrotest Reports Per SDC	
Certified Elevated Temp Tests Req'd No										Radiographic Inspection Reports Per SDC	
DIMENSIONAL/SHIPPING DATA										Ultrasonic Inspection Reports Per SDC	
Vessel Size 2133 mm ID x 6096 mm S/S										Magnetic Particle Inspection Reports Per SDC	
Boot/Gas Dome N/A mm x mm S/S										Dye Penetrant Inspection Reports Per SDC	
Capacity 24.3 m³										Fabricator Quality Control Manual Per SDC	
Centerline/Bottom Seam Elevation 1.5 m										Shop Inspection by Owner Yes	
Weight - Empty 7800 kg										Welding Procedure Review/Approval Per SDC	
Weight - Operat'g 35400 kg										* Vendor to specify	
O/A Shipping Dimensions (LxWxH) 7.71 x 2.62 x 3.21 m										REMARKS	
Nozzle Covers/Connection Plugs Required										1) See Page 2 of 3 for process condition Case 1 and Case 2.	
Shipping Cradles N/A										2) H ₂ S in gas phase can range from 0.09% mol to 0.97% mol and CO ₂ in gas phase can range from 1.65% mol to 14.5% mol.	
Ocean Transport Protection N/A										3) Structural attachments are defined as any non-pressure part welded directly to the shell or head.	
ACCESSORIES BY FABRICATOR										4) All manways shall be completed with internal grab rungs.	
Manway Davits ● Ladders ●										5) All davits on inclined manways shall open horizontally.	
Ladder and Platform Clips ● Platforms ●										6) Paired flanges to be used for instruments shall be set with a jig to avoid cumulative errors in alignment.	
Pipe Support and Guide Clips ● Lifting Lugs ●										7) All process nozzles of pressure vessels shall be designed to withstand loading and moments as specified in project specification # 085354-4060-PS-001.	
Insulation Supports ● Pipe Coil ○											
Insulation Supports Bottom Head ○ Anodes ○ (Hold)											
Fireproofing Supports ○ Nameplate ●											
Skirt Legs/Saddles ● Mist Eliminator ○											
Tray/Packing Supports ○ Vortex Breaker ●											
Manway Internal Grab Rungs ● Two Grounding Lugs ●											
Siphon Drains on Nozzles ● Inlet Diverter ●											
REVISIONS										 	
NO.	DATE	BY	CK	DL	AL	PEM	DESCRIPTION				
1	10-Jan-12	FA	JL	MA	PS	MA	IFP (This doc supersedes doc 085354-3205-8V851 R0 under MR 085354-R-3205-01)				
<div> <div>PROJECT</div> <div>MEG Energy Christina Lake Regional Project</div> </div> <div> <div>JOB NO.</div> <div>085354</div> </div> <div> <div>TAG NO.</div> <div>8-V-851</div> </div> <div> <div>LOCATION</div> <div>9-77-5 W4M</div> </div> <div> <div>PAGE</div> <div>1 of 3</div> </div>											

Please stamp this data sheet "As Built"

085354-3205-8V851-R1 DS Sour Gas Inlet Separator.xls

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