

Begleitschreiben BSI AE

An:
Hr. Dunst 14.02C
E O C&S TRB PM DUA 1
Auftrags-Nr. : I283105300 / DU283105300
Kennwort : May River 1

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Datum 17.01.2011

Verteiler: 12.06N

Status (S): 1=Endgültig PGI 2=Genehmigt mit Kommentar 3=Genehmigt ohne Kommentar 4=Endgültig anerkannt 5=Zurückgewiesen. Ändern und neue Zeichnung einreichen. Fertigung nicht fortführen 6=Als Information zur Kenntnis genommen			Code (C): A=Mit Einverständnis zurückerbeten B=Bitte eingetragene Änderungen beachten, neue Doku einreichen C=Mit unserem Einverständnisvermerk versehen zurück D=Zu Ihrer Information E=Bitte Unterlage ergänzen und zurück an Siemens AG PGI F=Unterlage bitte weiterleiten			Dokumentenart: Xp=Anzahl Schwarzpausen Xt=Anzahl Transparente Xs=Anzahl sonstige Datenträger		
Ident.Nr.	Rev.-Ind.	Bezeichnung	Rücksende	S	C	Xp	Xt	Xs
Kunden-Identnr.	Rev.Datum	Bemerkungen	Datum					
Lfd.-Nr.								
32107816	M	00	KUNDENDATENBLAETTER (THERMODYN.)	1	D	01		
01		17.01.2011						

Bemerkungen:
Kundendatenblätter (Thermodynamik)

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SIEMENS

Energy Sector

DOCUMENT IDENTIFICATION COVER

Unterlagendeckblatt

Client:

DPH Focus

Code:

May River 1

Order No.

Auftr. Nr.

DU283105300

Item

Objekt

Item No.

Objekt-Nr.

Compressor Type

Verdichtertyp

STC-GV(40-6)

Name of Document

Bezeichnung der Unterlage

CUSTOMER DATA SHEET (THERMODYNAMIC)

Number of Sheets

Anzahl der Blätter

3

Notes

Hinweis

					
May River Phase 1 Project					
Document Number				1002-PZ4024	Rev 0
	Drawn	Checked	APPROVED DSGN. ENG.	APPROVED PROJ. ENG.	
BY	Heikaus				
DATE	01.04.2011				
Project No:		11922	DOC. SIZE:	A4(210x297)	SCALE 1:1

0	-	01.04.2011	Heik	<i>Boldt</i>	Anderungsbeschreibung Description of Change				
Index Revision	Blatt Sheet	Datum Date	erstellt drawn	geprüft review	freigegeben checked	Entstanden aus: Original of:	Klassifikation: Classification:	-	
Klass. Nr. Class. No.:		Format Size		Ident-Nummer/Unterlagen-Nummer Ident-Number/Document-Number			Index Revision	Sprache Language	Blatt Sheet
Dok.-Art: Doc.-Type:		A4		32107816			0	EN	1 / 3

Eintragung der Handhabung öffentlich

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SIEMENS <select> CENTRIFUGAL AND AXIAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS (1-1.6.5)		JOB NO. 11922-D		ITEM NO. 1-5-K018	
		PURCHASE ORDER NO. DU283105300			
		INQUIRY NO. 08-03352			
		REVISION NO. 0		DATE 2011-01-17	
		PAGE 2		OF 3	
				BY Heikaus	

1 APPLICABLE TO: ☐ PROPOSAL ☒ Purchase ☐ As built	UNIT
2 FOR PetroBank Energy and Resources Ltd.	SERIAL NO.
3 SITE May River	NO. REQUIRED 1
4 SERVICE Oil and Gas	DRIVER TYPE (1-3.1.1) Steam Turbine
5 MANUFACTURER Siemens	DRIVER ITEM NO.
6 MODEL STC GV 40-6	
7	

8 INFORMATION TO BE COMPLETED: ☐ BY PURCHASER ☐ BY MANUFACTURER ☒ MUTUAL AGREEMENT (PRIOR TO PURCHASE)	
9 OPERATING CONDITIONS	
10 (ALL DATA ON PER UNIT BASIS)	
11 SPECIFIED OPERATING CASE	
11a CASING TYPE	Rated
11b SECTION	Turn Down
12 ☐ GAS HANDLED (ALSO SEE PAGE 2)	Winter Condition
13 ☒ GAS PROPERTIES (1-2.1.1.4)	Proc.St.1
14 ☐ Volume Flow (normal) Nm ³ /hOC (DRY)	Proc.St.1
15 ☐ Weight Flow kg/h (WET) (DRY)	Proc.St.1
16 INLET CONDITIONS AT CASING FLANGE	
17 ☐ Pressure bar	
18 ☐ Temperature °C	
19 ☐ Relative Humidity %	
20 ☐ Molecular Weight kg/kmol	
21 ☐ k AVG (K ₁) OR (K _{AVG}) (NOTE 1)	
22 ☐ Compressibility(Z1) (NOTE 1)	
23 ☐ Inlet Volume Flow m ³ /h (WET) (DRY)	
24 DISCHARGE CONDITIONS AT CASING FLANGE	
25 ☐ Pressure bar	
26 ☐ Temperature °C	
27 ☐ N acc. ASME PTC 10	
28 ☐ Compressibility(Z2) (NOTE 1)	
29 ☐ Power Requirement Internal kW	
30 ☐ Train Brake Required kW Compressor + external gear box losses	
31 ☐ Power Required incl. Losses kW	
32 ☐ Speed rpm	
33 ☐ TURNDOWN (%)	
34 ☐ Isothermal Head kJ/kg	
35 ☐ Isothermal Efficiency %	
36 ☐ CERTIFIED POINT	
37 ☐ EXPECTED OPERATION AT EACH CONDITION (%)	
38 ☐ PERFORMANCE CURVE NUMBER	
39 PROCESS CONTROL (1-3.4.2.1)	
40 METHOD ☐ SUCTION THROTTLING ☒ VARIABLE INLET ☐ SPEED VARIATION ☐ DISCHARGE ☐ COOLED BYPASS	
41 FROM BAR (kPa abs) GUIDE VANES FROM 70 % BLOWOFF FROM	
42 TO BAR (kPa abs) (2-2.4.1) TO 105 % TO TO	
43 SIGNAL	
44 TYPE ☐ ELECTRONIC ☒ PNEUMATIC ☐ OTHER	
45 RANGE 4 - 20 mA BAR (kPa abs)	
46	
47 ☐ ANTI-SURGE SYSTEM (1-3.4.2.2)	

* expected value	
48 REMARKS:	
49 NOTE 1: IF GAS ANALYSIS IS GIVEN, MANUFACTURER SHALL SUPPLY DATA, OTHERWISE DATA SHALL BE SUPPLIED BY USER	
50	
51	
52	
53	

SIEMENS <select>					JOB NO. <u>11922-D</u> ITEM NO. <u>1-5-K018</u> REVISION NO. <u>0</u> DATE <u>2011-01-17</u> PAGE <u>3</u> OF <u>3</u> BY <u>Heikaus</u>				
CENTRIFUGAL AND AXIAL COMPRESSOR DATA SHEET (API 617-7TH Chapter 2) SI UNITS (1-1.6.5)									
OPERATING CONDITIONS (Continued) (1-2.1.1.1) (1-3.1.2) (1-3.1.3)									
GAS ANALYSIS:		OTHER CONDITIONS			REMARKS:				
☐ MOL %		Rated	Turn Down	Winter Conditi					
	MW	Proc.St.1	Proc.St.1	Proc.St.1					
5	Air	28,96	97,87	97,87	100.0				
6	Water	18,02	2,13	2,13					
7									
8									
9									
10									
11									
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28									
29									
30	TOTAL		100.0	100.0	100.0				
31	AVG. MOL. WT.		28,73	28,73	0,00	0,00	0,00	0,00	
LOCATION: (1-2.1.8) ☒ INDOOR ☐ OUTDOOR ☐ GRADE ☐ HEATED ☐ UNDER ROOF ☐ MEZZANINE ☐ UNHEATED ☐ PARTIAL SIDES ☐ ELEC. AREA CLASSIFICATION (1-2.1.14) CL _____ GR _____ Zone _____ SITE DATA (1-2.1.8) ☐ ELEVATION <u>640</u> m BAROMETER <u>0,9</u> BAR ☐ RANGE OF AMBIENT TEMPS: NORMAL °C _____ DRY BULB WET BULB MAXIMUM °C <u>29</u> _____ MINIMUM °C <u>-45</u> _____ _____ °C _____ UNUSUAL CONDITIONS: ☐ DUST ☐ FUMES _____ °C _____ ☐ OTHER (1-2.1.8) _____ ☐ COPPER AND COPPER ALLOYS PROHIBITED (1-2.2.1.14) COATING: (1-2.2.1.16) ☐ ROTATING COMPONENTS _____ ☐ STATIONARY COMPONENTS _____ REMARKS: _____ NACE: <u>Not applicable</u>					NOISE SPECIFICATIONS: (1-2.1.9) ☐ APPLICABLE TO MACHINE: SEE SPECIFICATION _____ ☐ APPLICABLE TO NEIGHBORHOOD: SEE SPECIFICATION _____ ACOUSTIC HOUSING: ☐ YES ☐ NO APPLICABLE SPECIFICATIONS: API 617, 7TH CHAPTER 1&2 ☐ VENDOR HAVING UNIT RESPONSIBILITY (1-1.5.52) (1-1.8) (1-2.1.3) ☐ GOVERNING SPECIFICATION (IF DIFFERENT) _____ PAINTING: ☒ MANUFACTURER'S STD. ☐ OTHER _____ SHIPMENT: (1-4.4) ☐ DOMESTIC ☐ EXPORT ☐ EXPORT BOXING REQ'D. ☐ OUTDOOR STORAGE MORE THAN 6 MONTHS (1-4.4.1) _____ MO SPARE ROTOR ASSEMBLY PACKAGE (1-4.4.3.10) ☐ HORIZONTAL STORAGE ☐ VERTICAL STORAGE				
NOTE : 									

Ident-Nummer: 32107816