

 MEG ENERGY	CHRISTINA LAKE REGIONAL PROJECT Phase 3A EPC for Central Plant Facilities SLI Project No. 511036	 SNC-LAVALIN

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Vendor's drawing review for conformity with specifications and design drawing.													
This review does not relieve the vendor of his responsibility for errors in design and detailing as detailed in his contract.													
Vendor: Atlas Copco Compressors Canada (Calgary) - 1857 No.: 149779 - Skid P&ID Rev: 4 Date Rec'd 2014/04/23													
Doc. Title: K00.02 - Skid P&ID - Tag: 3A-PK-570													
Client Code:	Project: MEG Phase 3A EPC												
Reviewed by: <i>[Signature]</i>	Document No												
Date: 24-APR-2014	P-5447-01-0008 Submittal 05												

3A-K-571A/B/C

MAKE: ATLAS COPCO
MODEL: 2T315VSD, 575V, 60Hz, COPPER FREE OPTION
FAD: 2242 Sm³/HR AT 920 kPag, EACH COMPRESSOR
TYPE: ROTARY SCREW, OIL FREE, 2 STAGES
DRIVE: 296 kw

(FOR P&ID, SEE ATLAS COPCO FLOW DIAGRAM
DWG# 149779-9823 3257 00)

3A-PSV-57112/57122/57132

MAKE: FARRIS
MODEL: 2850-06-M40/150, COPPER FREE
SET @ 1034 kPag
INLET: 1 1/2" MNPT
OUTLET: 2" FNPT
MAX CAPACITY: 3505 Sm³/HR (2063 SCFM)
BASIS: BLOCKED FLOW

3A-PSV-A1/A2/B1/B2/C1/C2

MAKE: FARRIS
MODEL: 2850-06-M40/150, COPPER FREE
SET AT 372 kPag
INLET: 1 1/2" MNPT
OUTLET: 2" FNPT
MAX CAPACITY: 1466 Sm³/HR Ea. (863 SCFM EA.)
BASIS: BLOCKED FLOW

3A-V-5711:

WET AIR RECEIVER
MAKE: STEEL FAB
STYLE: VERTICAL - 54" x 166"
CAPACITY: 1550 GAL
DESIGN PRESSURE: 1034 kPag @
204°C / -29°C
MDMT: -29°C @ 1137 kPag
CORROSION ALLOWANCE: 1.6mm

3A-PSV-571101

MAKE: FARRIS
MODEL: 26JA10
SET AT 1034 kPag
INLET: 2" #150 RF
OUTLET: 3" #150 RF
MAX CAPACITY: 6935 Sm³/HR
(4082 SCFM)
BASIS: BLOCKED FLOW & THERMAL RELIEF

RECEIVER AUTO DRAIN

MAKE: SPIRAX SARCO
MODEL: CA 14
IN/OUT: 3/4" FNPT
COPPER FREE, MECHANICALLY
OPERATED (FLOATING DEVICE)

3A-F-5731-A/B

MAKE: ATLAS COPCO
TYPE: PD-1400F
CONNECTION: 6" #150 RFWN
ELEMENT: 0.1 MICRON
MAX: 0.1 PPM OF OIL /WITH ELECTRIC DRAIN

3A-D-573-A/B & C/D (note 8)

MAKE: ATLAS COPCO
TYPE: CD1400+, COPPER FREE
RATED FLOW: 3745 Sm³/HR @ 870 kPag WITH
TWO COMPRESSORS RUNNING
DEW POINT: -70°C @ 870 kPag
POWER: 115V/1PH/60Hz
CORROSION ALLOWANCE: 1.6mm
DESIGN PRESSURE: 1034 kPag

(FOR P&ID, SEE ATLAS COPCO FLOW DIAGRAM,
DWG# 149779-9829 2129 00)

3A-PSV-57311/57312/57321/57322

MAKE: FARRIS
MODEL: 2850-06-M40/150, Cu FREE
SET AT 1034 kPag
INLET: 1 1/2" MNPT
OUTLET: 2" FNPT
MAX CAPACITY: 3505 Sm³/HR (2063 SCFM)
BASIS: BLOCKED FLOW

3A-F-5732-A/B

MAKE: ATLAS COPCO
MODEL: DDP +1400F
CONNECTION: 6" #150 RFWN
ELEMENT: 1.0 MICRON

3A-PG-571102

MAKE: WIKA
MODEL: 233.54
4 1/2" DIAL, DUAL SCALE
0 TO 1379 kPag, LIQUID FILL
1/2" NPT BOTTOM CONNECTION.

149779 - SKID P&ID
REV 04, 16/APR/2014
PO: P-5447-01 SNC - MEG ENERGY
Project CLRP PHASE 3A EPC FOR CENTRAL PLANT FACILITY (SLI#511036)
INSTRUMENT AIR PACKAGE TAG #: 3A-PK-570

MEG ENERGY
SKID EDGE - RIPA IND

IA-5432-6"-AI

F-5732-A

6"-BA-100X

6"-BA-100X

5"-BA-605

6"-BA-100X

6"-BA-100X

5"-BA-605

6"-BA-100X

6"-BA-100X

5"-BA-605

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6"-BA-100X

5"-BA-605

NOTES:

- DESIGN AND TESTING PARAMETERS LOCATED ON 3798 - LINE LIST
- CODE: BUILT TO - ASME B31.3-2012
INSTRUMENT AIR PIPING TO PIPE CLASS 'A'
DRAIN PIPING TO PIPE CLASS 'A' - THREADED CONNECTIONS
ACCEPTED WHERE SOCKET WELDING ISN'T SUITABLE.
- PIPING BETWEEN COMPRESSORS AND DRYERS TO BE HOT DIP GALVANIZED.
- PIPING AFTER DRYER TO SKID EDGE TO SYSTEM CODE
DRAIN PIPING INSIDE SKID TO SYSTEM CODE S3, PRIMER P11, FINISH COAT P19
- ALL TAGS TO BE PRE-FIXED WITH "3A-"
- ALL TUBING TO BE 316SS SWAGelok BRAND
- DIRECT ALL PSV VENTS TO A SAFE LOCATION BY SLI.
- RATED PRESSURE AND FLOW AT SKID EDGE = 870 kPag
- PD'S ON F-5731 A/B & F-5732 A/B TO BE WIRED TO CD 1400+ (DRYER) ELEKTRONIKON CONTROLLER FOR HIGH DIFFERENTIAL PRESSURE SIGNAL. (TO BE DONE BY SLI)

REVISIONS	DATE	DESCRIPTION	BY	APP'D
1	18/10/13	ISSUED FOR APPROVAL	IRA	
2	25/11/13	REVISED AS PER COMMENTS - ISSUED FOR CONSTRUCTION	ITA	
3	17/01/14	REVISED AS PER COMMENTS - ISSUED FOR CONSTRUCTION	ITA	
4	13/03/14	REVISED AIRLINE FROM COMPRESSORS TO RECEIVER	ITA	
5	16/04/14	REVISED AIROUT NUMBERS, PSV BASIS AND GENERAL NOTE ADDED/ITA	ITA	

Atlas Copco
ATLAS COPCO COMPRESSORS CANADA
30 Montrose
Dollard Desormeaux, Quebec, Canada
TEL: (514) 4214121 FAX: (514) 4214080

AC P.O. NO. 149779 AC DOCUMENT NO. 149779-379802 1

RIPA INDUSTRIES LTD.
61 Industry Way SE
Calgary, AB, Canada T3S 0A2
Ph: (403) 252-4949
Fx: (403) 252-6544

PROJECT CLRP PHASE 3A EPC FOR CENTRAL PLANT FACILITY

CUSTOMER SNC LAVALIN for MEG ENERGY

P.O.NO. P-5447-01

DRAWING DESCRIPTION

FLOW DIAGRAM

DRAWN BY: Robert Austin	DATE: Oct 18/13	SCALE: N.T.S.
CHECKED BY:	DATE:	RIPA FILE: 3798
DRAWING NUMBER: 3798-02	Sht: 1 of 1	REV: 3

