

**TENDER ENQUIRY NO. PROC-FC/CB/P&P/KPD-4413/2019 FOR SUPPLY & COMMISSIONING OF SKID MOUNTED INSTRUMENT AIR DRYER FOR KPD-TAY PLANT**

<b>Sr.No</b>	<b>Query</b>	<b>Response from OGDCL</b>
1	Please share the full details of instrument air compressor regarding the outlet quality (i.e. flow, pressure, temperature, dew point, etc.).	<a href="#">OGDCL:</a> <a href="#">Please see the attachment.</a>



# Sinjhoro Gas Plant Project

<b>END CUSTOMER</b>	: Oil & Gas Development Company Ltd.
<b>VENDOR NAME</b>	: Airpack Netherlands BV
<b>EQUIPMENT DESCRIPTION</b>	: Nitrogen Generator Package
<b>PURCHASE ORDER NUMBER</b>	: PROC-FC/CB/PROJ/SINJ-0270/767186/2012

Customer Document Number : -

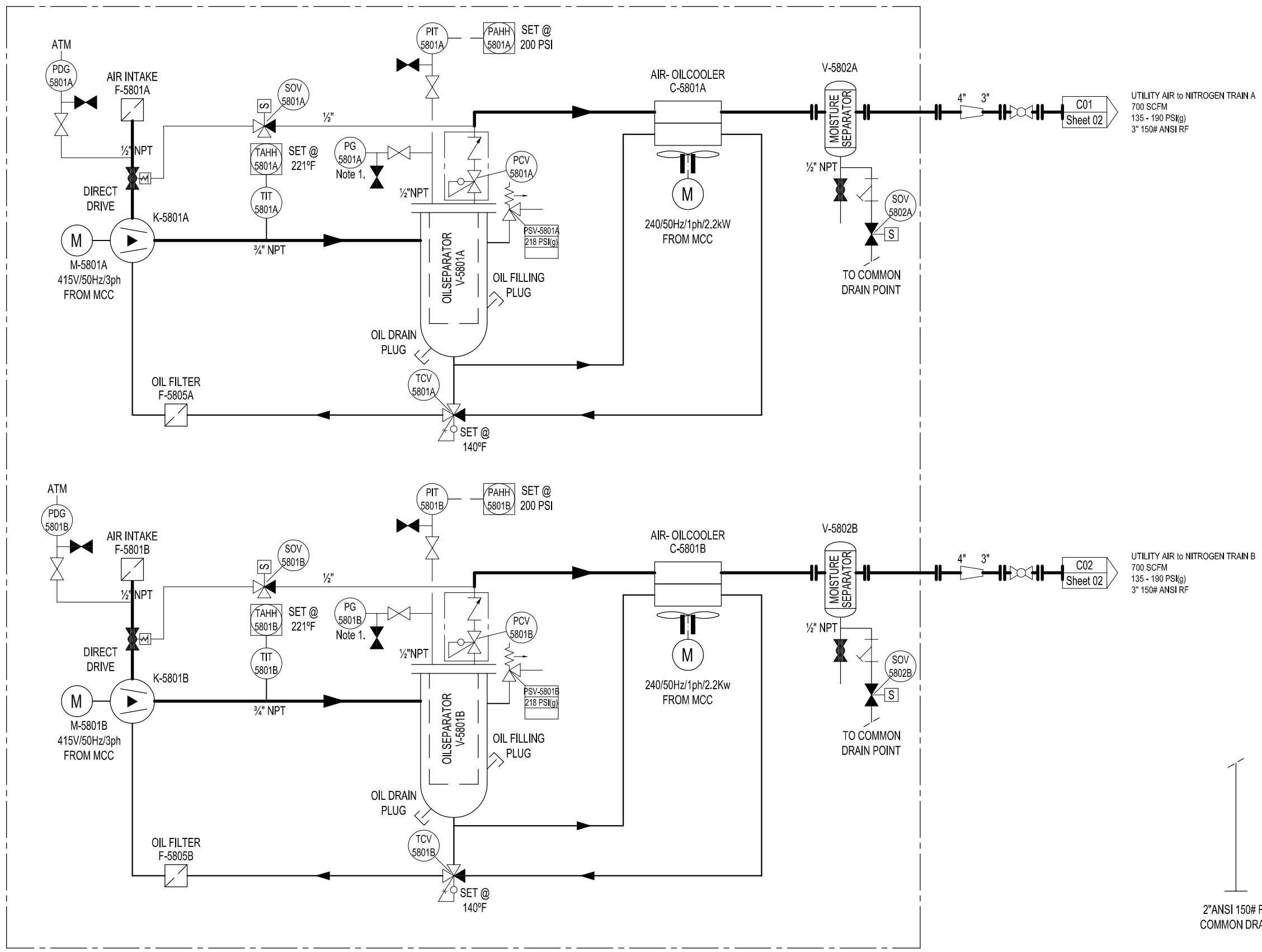
Airpack Document Number : 13452-03

Document Title : Piping & Instrumentation Diagram

Review Code and Status		Contractor Initials/Signature	Date signed
<input type="checkbox"/>	<b>Code 1</b> <b>REJECTED</b> - Vendor to revise and Resubmit. Work cannot proceed		
<input type="checkbox"/>	<b>Code 2</b> Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
<input type="checkbox"/>	<b>Code 3</b> No Comments - Work may proceed.		
<input type="checkbox"/>	<b>Code 4</b> Information only - Review not required.		

04	Issued for Review	26-09-2013	BK	RR	RR
03	Issued for Review	13-09-2013	BK	RR	RR
02	Issued for Review	30-07-2013	BK	RR	RR
01	Issued for Review	25-06-2013	BK	RR	RR
00	Issued for Review	12-06-2013	RR	MO	RR
Rev. No.	Description	Date	Prepared by	Checked by	Approved by

COMPRESSOR	MAIN MOTOR	AIR- OIL COOLER	OIL SEPERATOR	AIR INTAKE FILTER	MOISTURE SEPARATOR
Tagnumber : K-5801A/B Type : Oil injected screw Design capacity : 1120 Nm <sup>3</sup> /hr Oper./Design pressure : 190 / 232 PSI(g) Speed : 2985 rpm	Tagnumber : M-5801A/B Rated power : 230 kW Speed : 2985 rpm Power supply : 415V / 50Hz / 3ph Nominal current : ~368 A Ingress protection : IP 55 Hazardous area class. : Safe Area	Tagnumber :C-5801A/B Cooler material :Aluminium Power supply :240V / 50Hz / 1ph Ingress protection :IP 55 Hazardous area class. :Safe Area Operating pressure/temp. :190 PSI(g)/120 °F Design pressure/temp. :232 PSI(g)/200 °F	Tagnumber :V-5801A/B Ingress protection :IP 55 Hazardous area class. :Safe Area Operating pressure :190 PSI(g) Design pressure :232 PSI(g)	Tagnumber(s) : F-5801A/B Design capacity : 1120 Nm <sup>3</sup> /hr Oper./Design pressure : 190 / 232 PSI(g)	Tagnumber(s) : V-5802A/B Design capacity : 1120 Nm <sup>3</sup> /hr Oper./Design pressure : 190 / 232 PSI(g)



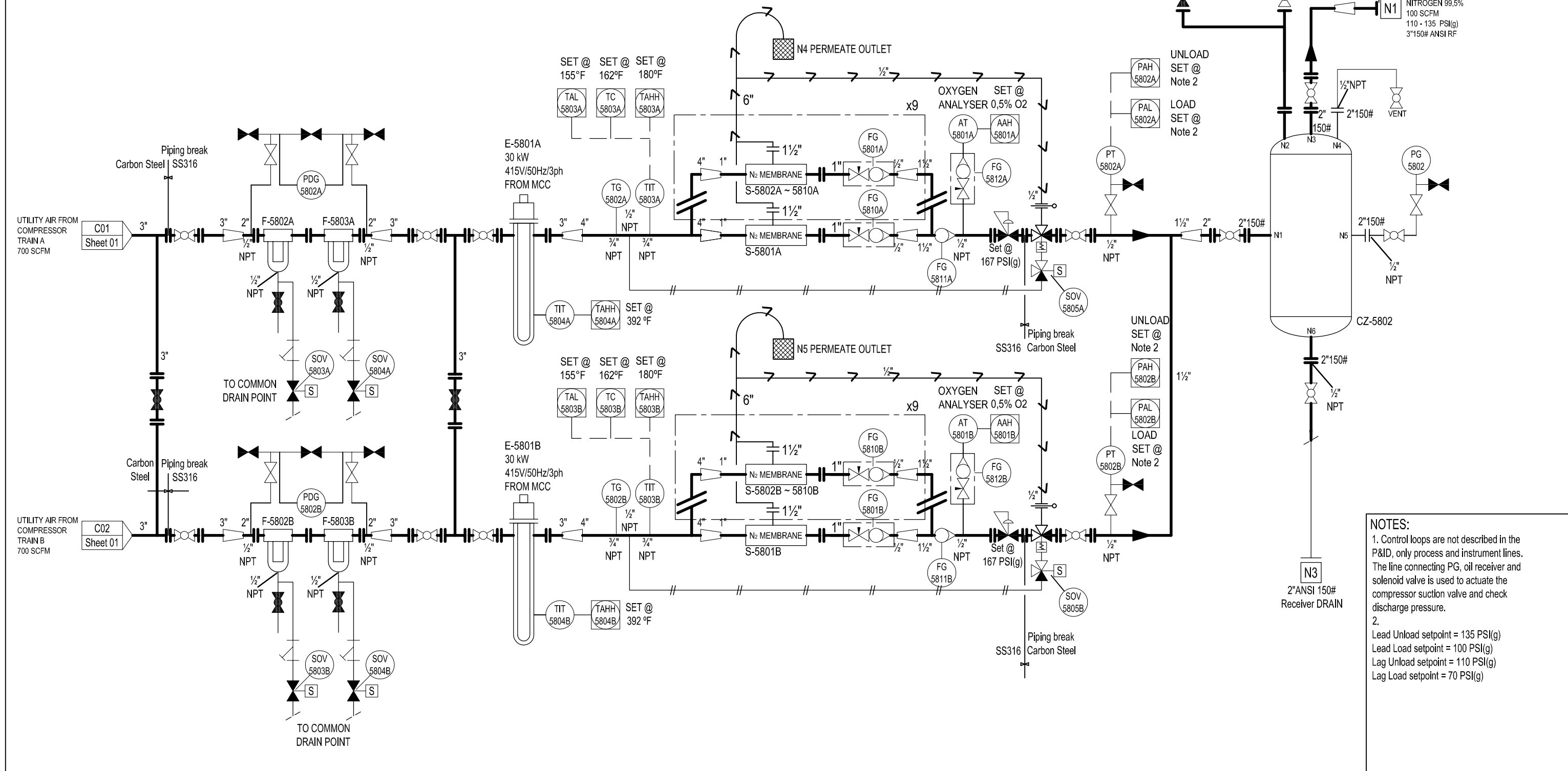
**NOTES:**  
1. Control loops are not described in the P&ID, only process and instrument lines. The line connecting PG, oil receiver and solenoid valve is used to actuate the compressor suction valve and check discharge pressure.



SUBJECT	NITROGEN GENERATOR PACKAGE PIPING & INSTRUMENTATION DIAGRAM		DATE	12-06-2013
	CLIENT	Oil & Gas Development Company Ltd.	DRAWN BY	RR
			CHECKED BY	MO
CLIENT REF	Sinhoro Gas Plant Project / V-5800		PLANT LOCATION	
AIRPACK REF	13452-GEN		DRAWING NO.	13452-03
			SHEETNO.	01/02

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	02	30-07-2013	BK
	01	25-6-2013	BK
	00	12-06-2013	RR

NITROGEN RECEIVER		HEATER		MEMBRANES	
Tagnumber(s) : CZ-5802	Tagnumber(s) : E-5801A/B	Tagnumber(s) : S-5801A~10A			
Volume : 3,75 m3	Rated power : 30 kW	S-5801B~10B			
Material : Carbon Steel	Voltage : 415V	Capacity : 32 Nm <sup>3</sup> /hr			
Oper./Design pressure : 135 / 165 PSIG	Frequency : 50Hz	Purity : 99,5 % N <sub>2</sub>			
Oper./Design temp. : 149 / 185 °F	Number of phases : 3ph	Oper./Design pressure : 170 PSIG			
Corrosion Allowance : 3mm	Material : SS 316L	Max. inlet temperature : 149 °F			
	Design : Safe Area	Housing : Aluminium			
CARBON FILTER		PRE-FILTER			
Tagnumber(s) : F-5803A/B	Tagnumber(s) : F-5802A/B				
Type : Carbon Filter	Type : Coalescing Filter				
Design capacity : 1120 Nm <sup>3</sup> /hr	Design capacity : 1120 Nm <sup>3</sup> /hr				
Oper./Design pressure : 190 / 232 PSI(g)	Oper./Design pressure : 190 / 232 PSI(g)				
Material : SS316	Material : SS316				

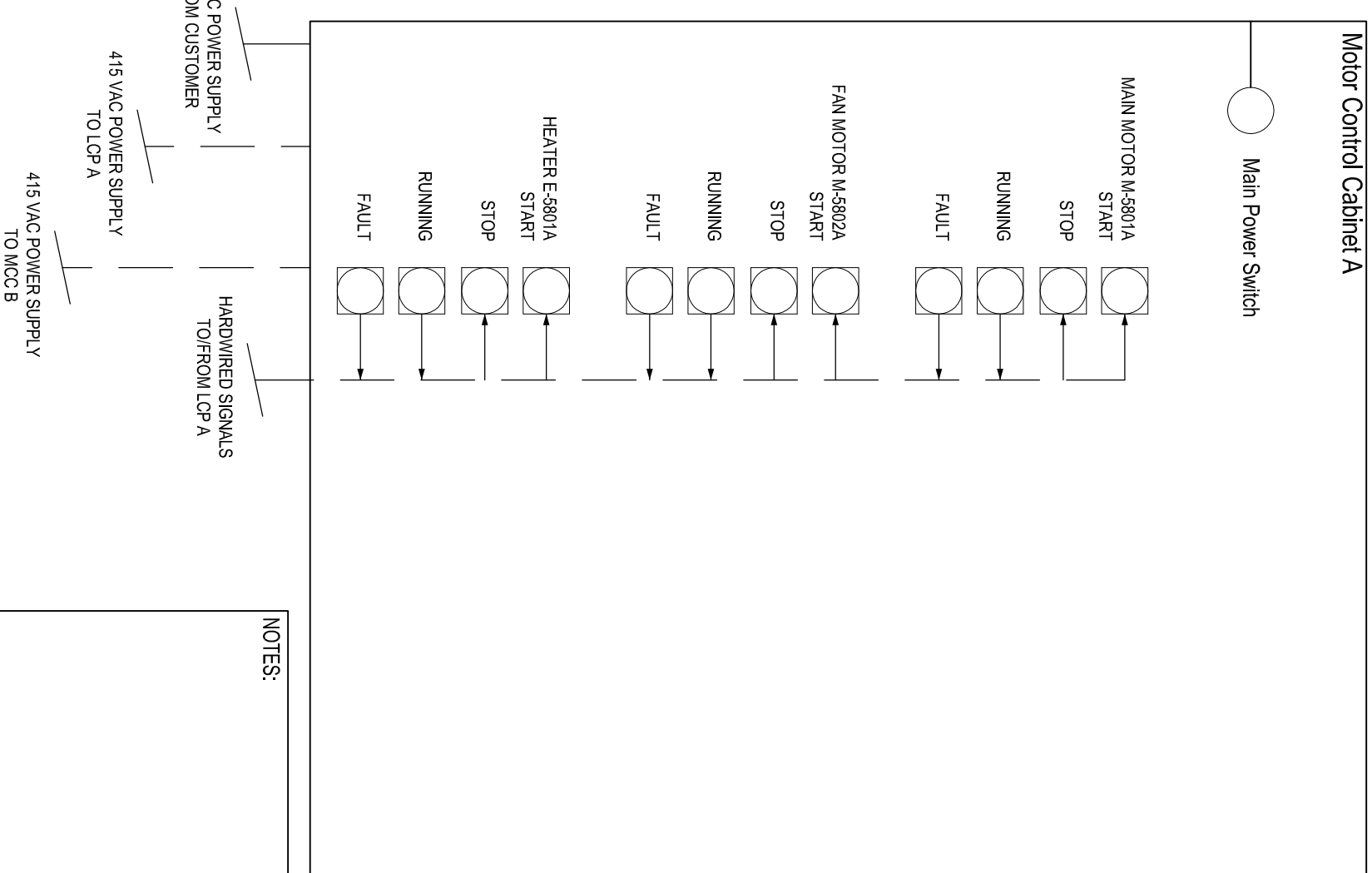
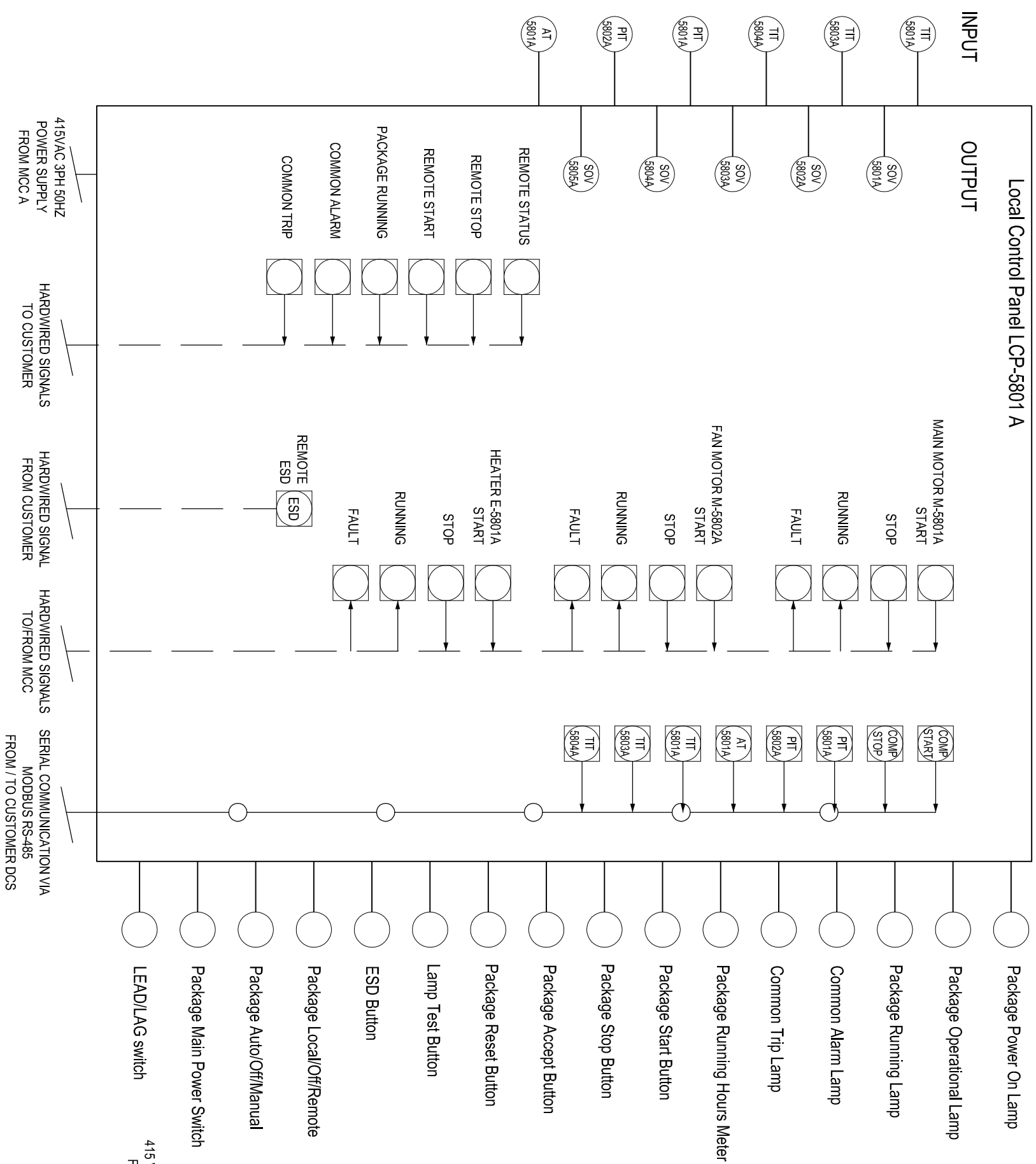


**NOTES:**

- Control loops are not described in the P&ID, only process and instrument lines. The line connecting PG, oil receiver and solenoid valve is used to actuate the compressor suction valve and check discharge pressure.
- Lead Unload setpoint = 135 PSI(g)  
Lead Load setpoint = 100 PSI(g)  
Lag Unload setpoint = 110 PSI(g)  
Lag Load setpoint = 70 PSI(g)

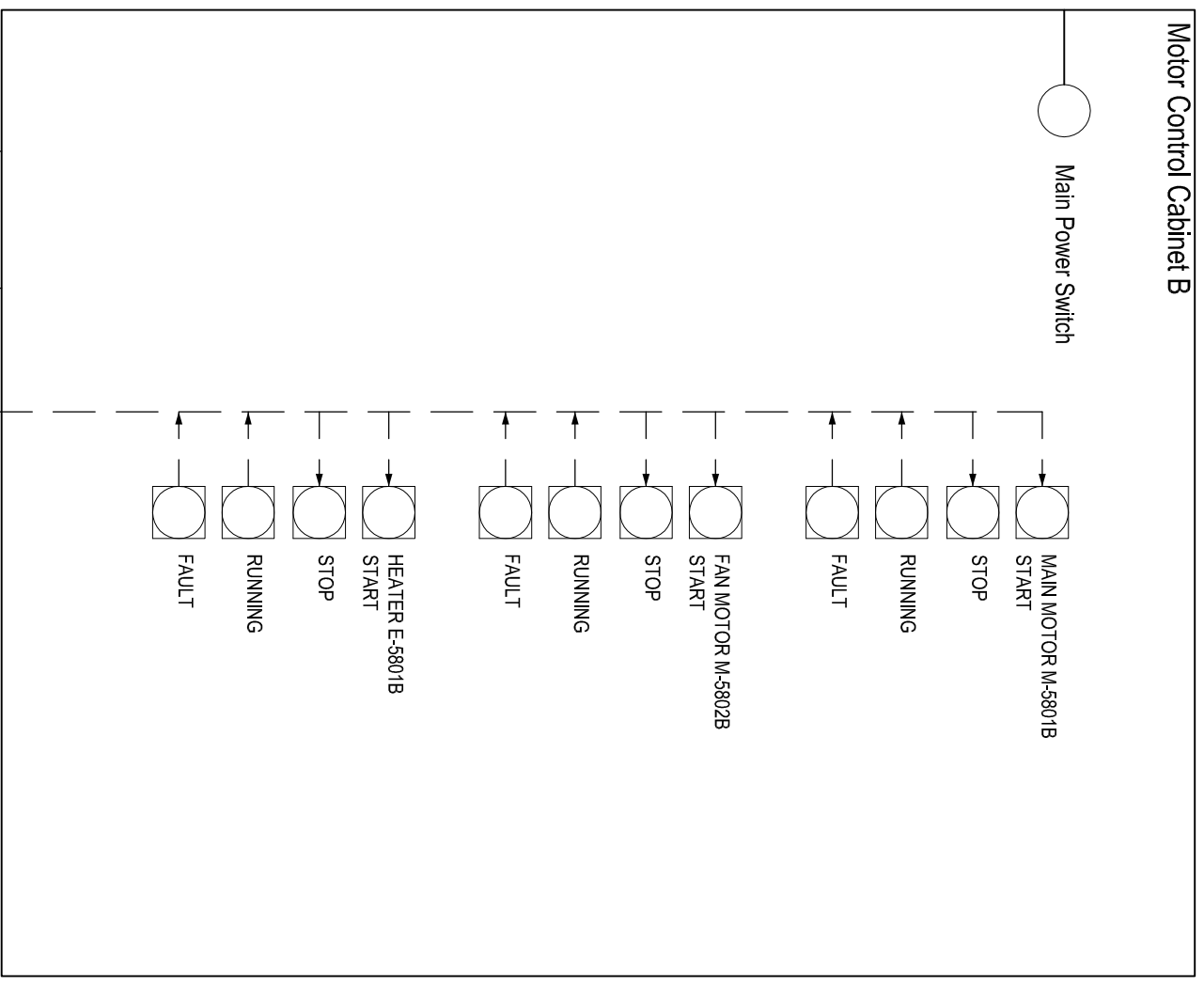
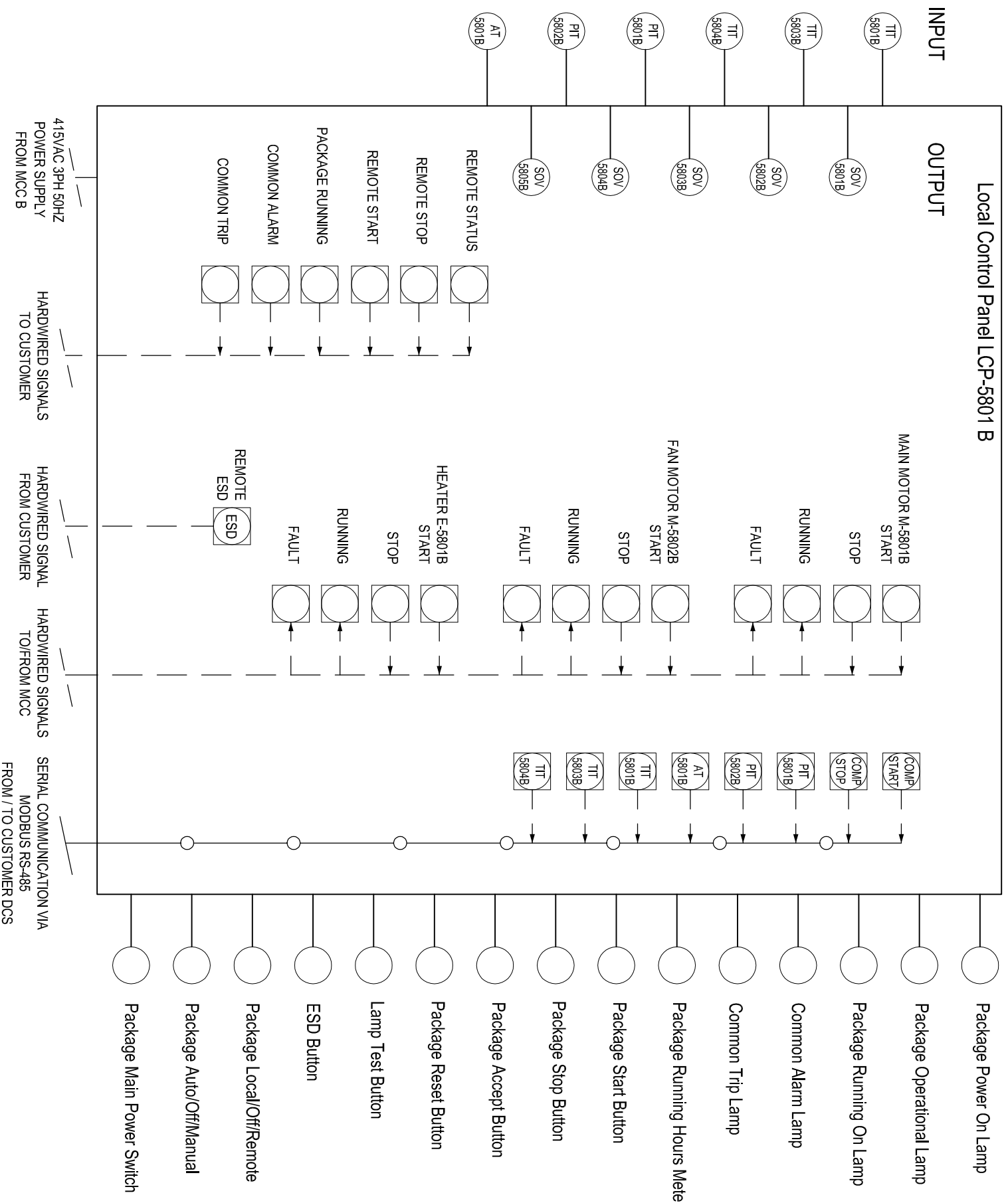
	SUBJECT	NITROGEN GENERATOR PACKAGE PIPING & INSTRUMENTATION DIAGRAM	DATE	12-06-2013
	CLIENT	Oil & Gas Development Company Ltd.	DRAWN BY	RR
	CLIENT REF	Sinjhoru Gas Plant Project / V-5800	CHECKED BY	MO
	AIRPACK REF	13452-GEN	PLANT LOCATION	
			DRAWING NO.	13452-03
			SHEETNO.	02/02

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00	12-06-2013	RR	



<b>airpack</b> <small>TECHNOLOGIES</small>		SUBJECT: NITROGEN GENERATOR PACKAGE PIPING & INSTRUMENTATION DIAGRAM		DATE: 12/06-2013	THIS DRAWING IS OWNED BY AIRPACK AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH PERMISSION
CLIENT:	Oil & Gas Development Company Ltd.	CHECKED BY:	RR	04	
CLIENT REF:	Sinjhor Gas Plant Project / V-5800	PLANT LOCATION:	MO	03	
AIRPACK REF:	13452-GEN	DRAWING NO.:	13452-03	02	
		SHEET NO.:	03/03	01	
				00	12/06-2013

**NOTES:**



NOTES:

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NITROGEN GENERATOR PACKAGE PIPING & INSTRUMENTATION DIAGRAM		12/06-2013		04	
DRAWN BY		RR		26-09-2013	
CHECKED BY		MO		03	
CLIENT		Oil & Gas Development Company Ltd.		13/09-2013	
CLIENT REF		Sinhoro Gas Plant Project / V-5800		02	
AIRPACK REF		13452-GEN		01	
DRAWING NO.		13452-03		25-5-2013	
SHEETNO.		03/03		00	
				12/06-2013	
				RR	

