



# ASPC Project



<b>END CUSTOMER</b>	: Arya Sasol Polymer Company
<b>CONTRACTOR</b>	: DYPNF Co., Ltd.
<b>VENDOR NAME</b>	: Airpack Netherlands BV
<b>EQUIPMENT DESCRIPTION</b>	: Screw Compressor & Roots Blower
<b>PURCHASE ORDER NUMBER</b>	: PO-PC2312-08

Customer Document : 3944-VD-0171-DYP-RE-400-DIA-0082  
Number

Airpack Document Number : 23383-27

Document Title : Cause & Effect 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="text"/>	<input type="text"/>
<input type="checkbox"/>	<b>Code 2</b> Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<b>Code 3</b> No Comments - Work may proceed.	<input type="text"/>	<input type="text"/>
<input type="checkbox"/>	<b>Code 4</b> Information only - Review not required.	<input type="text"/>	<input type="text"/>

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Rev. No.	Description	Date	Prepared by	Checked by	Approved by



**DOCUMENT TITLE: 23383-27**  
**Cause & Effect chart Nitrogen Screw Compressor**

CAUSE				EFFECT	Tag. Number	N/A	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
Instrument Tag	Signal	Type	Description		Component	displ. readout on DCS	Compressor	Compressor	Compressor	Common trip	Common trip (to DCS)
					READOUT						
44HSSL-4001001 44HSSL-4002001	ESD	BUTTON	EMERGENCY SHUT DOWN (LCP)						x		
44HSL-4001001 44HSL-4002001	STOP	BUTTON	STOP BUTTON (LCP)		x			x			
44HSH-4001001 44HSH-4002001	START	BUTTON	START BUTTON (LCP)		x	x					
44PI-4001003 44PI-4002003	TRIP	LL	COMPRESSOR INLET PRESSURE		x					x	x
44TI-4001056 44TI-4002056	TRIP	HH	COMPRESSOR OIL TEMPERATURE		x					x	x
44PI-4001054 44PI-4002054	TRIP	LL	COMPRESSOR OIL PRESSURE		x					x	x
44PI-4001011 44PI-4002011	TRIP	HH	COMPRESSOR DISCHARGE PRESSURE		x					x	x
44TI-4001057 44TI-4001057	TRIP	HH	COMPRESSOR DISCHARGE TEMPERATURE		x					x	x
N/A	FAULT	FAULT	MAIN MOTOR FAULT SIGNAL		x					x	x
N/A	FAULT	FAULT	FAN MOTOR FAULT SIGNAL		x					x	x
N/A	FAULT	FAULT	OIL DEMISTER FAULT SIGNAL		x					x	x

NOTE 1: This nitrogen screw compressor cause & effect is applicable for 44C-40001A/B  
 NOTE 2: For detailed stop, start and trip sequences, refer to control narrative  
 NOTE 3: For values of alarms and trips, refer to alarm and trip setpoint list



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**Cause & Effect chart Air Screw Compressor**

CAUSE				EFFECT	Tag. Number	N/A	T.B.A.	T.B.A.	T.B.A.	T.B.A.	T.B.A.
Instrument Tag	Signal	Type	Description		Component	displ. readout	Compressor	Compressor	Compressor	Common trip	Common trip (to DCS)
						on DCS					
					READOUT	START	STOP	TRIP	TRIP SIGNAL	FAULT LAMP	
44HSSL-8004001 44HSSL-8004003 44HSSL-8004009 44HSSL-8004011 44HSSL-8005001 44HSSL-8005003 44HSSL-8005005	ESD	BUTTON	EMERGENCY SHUT DOWN (LCP)						x		
44HSL-8004001 44HSL-8004003 44HSL-8004009 44HSL-8004011 44HSL-8005001 44HSL-8005003 44HSL-8005005	STOP	BUTTON	STOP BUTTON (LCP)			x		x			
44HSH-8004001 44HSH-8004003 44HSH-8004009 44HSH-8004011 44HSH-8005001 44HSH-8005003 44HSH-8005005	START	BUTTON	START BUTTON (LCP)			x	x				
44PI-8004001 44PI-8004003 44PI-8004013 44PI-8004016 44PI-8005001 44PI-8005004 44PI-8005006	TRIP	LL	COMPRESSOR INLET PRESSURE			x			x	x	x
44TI-8004041 44TI-8004042 44TI-8004043 44TI-8004044 44TI-8005041 44TI-8005042 44TI-8005043	TRIP	HH	COMPRESSOR OIL TEMPERATURE			x			x	x	x

44PI-8004041 44PI-8004042 44PI-8004043 44PI-8004044 44PI-8005041 44PI-8005042 44PI-8005043	TRIP	LL	COMPRESSOR OIL PRESSURE			x			x	x	x
44PI-8004002 44PI-8004004 44PI-8004014 44PI-8004017 44PI-8005002 44PI-8005005 44PI-8005007	TRIP	HH	COMPRESSOR DISCHARGE PRESSURE			x			x	x	x
44TI-8004001 44TI-8004003 44TI-8004009 44TI-8004011 44TI-8005001 44TI-8005003 44TI-8005004	TRIP	HH	COMPRESSOR DISCHARGE TEMPERATURE			x			x	x	x
N/A	FAULT	FAULT	MAIN MOTOR FAULT SIGNAL			x			x	x	x
N/A	FAULT	FAULT	FAN MOTOR FAULT SIGNAL			x			x	x	x
N/A	FAULT	FAULT	OIL DEMISTER FAULT SIGNAL			x			x	x	x
<p>NOTE 1: This nitrogen screw compressor cause &amp; effect is applicable for 44C-80001A/B, 44C-80004A/B, 44C-80005A/B/C</p> <p>NOTE 2: For detailed stop, start and trip sequences, refer to control narrative</p> <p>NOTE 3: For values of alarms and trips, refer to alarm and trip setpoint list</p>											

