

 <p>شرکت توسعه صنایع لوان Lavan Industry Development Company</p>	<p>LIDCO, Pars SEE Zone, Assaluyeh, Integrated Methanol and Ammonia Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT</p>						
	<p>Cause & Effect Chart</p>						
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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Cause & Effect Chart (K020)**

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Cause & Effect Chart

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DOCUMENT TITLE: 17735-27
Cause & Effect chart Compressor

CAUSE SIGNALS ARE INCLUDED IN P&ID DOCUMENT					EFFECT	Tag, Number	320-MBS-8201	320-MBW-8202	320-PCV-8201	320-UY-8204	320-MBG-8201	320-MBG-8201	320-ML-8201
Instrument Tag	Signal	Type	Description	Interlock		Component	MOTOR START	MOTOR STOP	LOAD / UNLOAD VALVE	EMERGENCY TRIP LAMP	AVAILABLE STATUS SIGNAL	FAILURE STATUS SIGNAL	RUNNING LIGHT
320HS-8203	EMERGENCY STOP	BUTTON	EMERGENCY SHUT DOWN LPS	IP-920			SP	DE	x		x		
320HS-8206	EMERGENCY STOP	ESD	EMERGENCY SHUT DOWN DCS	IP-920			SP	DE	x		x		
320HS-8201	START	BUTTON	START COMPRESSOR LPS/DCS	IP-922		ST		E		x		x	
320HS-8202	STOP	BUTTON	STOP COMPRESSOR LPS/DCS	IP-923			SP	DE		x			
320PT-8201	TRANSMITTER	LL	COMPRESSOR INLET PRESSURE LOW LOW	IP-920			SP	DE	x		x		
320PT-8202	TRANSMITTER	LL	2ND STAGE SUCTION PRESSURE LOW LOW	IP-920			SP	DE	x		x		
320TT-8203	TRANSMITTER	HH	2ND STAGE SUCTION TEMPERATURE HIGH HIGH	IP-920			SP	DE	x		x		
320TT-8205	TRANSMITTER	HH	COMPRESSOR OULTET TEMPERATURE HIGH HIGH	IP-920			SP	DE	x		x		
320PT-8203	TRANSMITTER	HH	COMPRESSOR OULTET PRESSURE HIGH HIGH	IP-920			SP	DE	x		x		
320PT-8204	TRANSMITTER	LL	OIL PRESSURE LOW LOW	IP-920			SP	DE	x		x		
101-MBP-001	MOTOR	CONTROL	MOTOR RUNNING FEEDBACK TRIP		Note 1		SP	DE	x		x		

Legend:
 ST = Start
 SP = Stop
 X = Action
 E = Energize
 DE = De-energize

NOTES:
 1. MOTOR FEEDBACK TRIP, 2 SECOND AFTER START SINGAL IS SEND AND MOTOR IS NOT SENDING FEEDBACK, THE PACKAGE IS TRIPPED
 2. PCV-8201 ENERGIZE MEANS PCV IS REGULATING THE OUTLET PRESSURE AT THE SET POINT. DE-ENERGIZE IS FAIL POSITION (OPEN).

Refer to: 17735-03 P&ID, 17735-21 Control philosophy