

 <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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<p>N278</p>	<p>VD</p>	<p>6019</p>	<p>GN</p>	<p>SF</p>	<p>0029</p>	<p>06</p>	

**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Cause & Effect Chart (K020)**

Code 2
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Cause & Effect Chart

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DOCUMENT TITLE: 17735-27
Cause & Effect chart Compressor

There is no Hand switch for start from DCS. Compressor will be started by PALL-8191 or by HS from LCP

DOCUMENT

Instrument Tag	Signal	Type	Description	Interlock		Tag. Number	Component	320MBS-8201	320MBW-8202	320PCV-8201	320UY-8204	320YL-8202	320XA-8203	320ML-8201
320HS-8203	EMERGENCY STOP	ESD	EMERGENCY SHUT DOWN LPS	IP-920			on DCS	MOTOR START	MOTOR STOP	LOAD / UNLOAD VALVE ^{note 2}	EMERGENCY TRIP LIGHT	OPERATIONAL LIGHT ^{note 3}	FAULT LIGHT	RUNNING LIGHT
320SW-8206	EMERGENCY STOP	ESD	EMERGENCY SHUT DOWN DCS	IP-920			READOUT	START	STOP	BYPASS				
320HS-8201	START	BUTTON	START COMPRESSOR LPS	IP-922			x	ST		E		x		x
320SW-8207	START	BUTTON	START COMPRESSOR DCS	IP-922			x	ST	E			x		x
320HS-8202	STOP	BUTTON	STOP COMPRESSOR LPS	IP-923			x		SP	DE				
320SW-8208	STOP	BUTTON	STOP COMPRESSOR DCS	IP-923			x		SP	DE				
320PT-8201	TRANSMITTER	LL	COMPRESSOR INLET PRESSURE LOW LOW	IP-920			x		SP	DE	x			
320PT-8202	TRANSMITTER	LL	2ND STAGE SUCTION PRESSURE LOW LOW	IP-920			x		SP	DE	x			
320TT-8203	TRANSMITTER	HH	2ND STAGE SUCTION TEMPERATURE HIGH HIGH	IP-920			x		SP	DE	x			
320TT-8205	TRANSMITTER	HH	COMPRESSOR OULTET TEMPERATURE HIGH HIGH	IP-920			x		SP	DE	x			
320PT-8203	TRANSMITTER	HH	COMPRESSOR OULTET PRESSURE HIGH HIGH	IP-920			x		SP	DE	x			
320PT-8204	TRANSMITTER	LL	OIL PRESSURE LOW LOW	IP-920			x		SP	DE	x			
101-MBP-001	MOTOR	CONTROL	MOTOR RUNNING FEEDBACK TRIP		note 1		x		SP	DE	x			
320PT-8201	TRANSMITTER	H	COMPRESSOR INLET PRESSURE HIGH				x						x	
320TT-8201	TRANSMITTER	L	COMTRESSOR INLET TEMPERATURE LOW				x						x	
320TT-8201	TRANSMITTER	H	COMTRESSOR INLET TEMPERATURE HIGH				x						x	
320TT-8202	TRANSMITTER	L	1ST STAGE OUTLET TEMPERATURE LOW				x						x	
320TT-8202	TRANSMITTER	H	1ST STAGE OUTLET TEMPERATURE HIGH				x						x	
320PT-8202	TRANSMITTER	L	2ND STAGE SUCTION PRESSURE LOW				x						x	
320TT-8203	TRANSMITTER	H	2ND STAGE SUCTION TEMPERATURE HIGH				x						x	
320TT-8204	TRANSMITTER	L	2ND STAGE DISCHARGE TEMPERATURE LOW				x						x	
320TT-8204	TRANSMITTER	H	2ND STAGE DISCHARGE TEMPERATURE HIGH				x						x	
320TT-8205	TRANSMITTER	H	2ND STAGE DISCHARGE TEMPERATURE HIGH				x						x	
320PT-8203	TRANSMITTER	L	COMPRESSOR OUTLET PRESSURE LOW				x						x	
320PZLC	TRANSMITTER	READOUT	POSITIONER FEEDBACK 320PCV-8201				x							
320PAHH-8191	TRANSMITTER	HH	EXTERNAL SIGNAL PRESSURE VESSEL HIGH HIGH	IP-920	note 4		x		SP	DE	x			
320PALL-8191	TRANSMITTER	LL	EXTERNAL PRESSURE VESSEL LOW LOW	IP-922	note 4		x	ST		E		x		x
320PAH-8191	TRANSMITTER	H	EXTERNAL PRESSURE VESSEL HIGH	IP-923	note 4		x		SP	DE				

Legend:

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

NOTES:

- MOTOR FEEDBACK TRIP, 2 SECOND AFTER START SINGAL IS SEND AND MOTOR IS NOT SENDING FEEDBACK, THE PACKAGE IS TRIPPED
- PCV-8201 ENERGIZE MEANS PCV IS REGULATING THE OUTLET PRESSURE AT THE SET POINT. DE-ENERGIZE IS FAIL POSITION (OPEN).
- OPERATIONAL LIGHT IS OFF DURING ANY TRIP OR STOP BUTTON IS PRESSED.
- TRANSMITTER IS EXTERNALLY PLACED ON THE PRESSURE VESSEL AFTER THE COMPRESSOR PACKAGE.