



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Cause & Effect Chart

Document No. 17735-27

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

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	23-05-2024	Issued for Approval	S.K.	J.J.	S.K.
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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-XL-8204	320-MBG-8201
Instrument Tag	Signal	Type	Description	Interlock		Component	MOTOR START	MOTOR STOP	LOAD / UNLOAD VALVE	COMMON TRIP LAMP LCP	AVAILABLE / FAILURE STATUS SIGNAL
320HS-8203	EMERGENCY STOP	BUTTON	EMERGENCY SHUT DOWN LPS	IP-923			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			
320HS-8202	STOP	BUTTON	STOP COMPRESSOR LPS/DCS	IP-920			SP	DE			
320PT-8201	TRANSMITTER	LL	COMPRESSOR INLET PRESSURE LOW LOW	IP-923			SP	DE	x	x	
320PT-8202	TRANSMITTER	LL	2ND STAGE SUCTION PRESSURE LOW LOW	IP-923			SP	DE	x	x	
320TT-8203	TRANSMITTER	HH	2ND STAGE SUCTION TEMPERATURE HIGH HIGH	IP-923			SP	DE	x	x	
320TT-8205	TRANSMITTER	HH	COMPRESSOR OULTET TEMPERATURE HIGH HIGH	IP-923			SP	DE	x	x	
320PT-8203	TRANSMITTER	HH	COMPRESSOR OULTET PRESSURE HIGH HIGH	IP-923			SP	DE	x	x	
320PT-8204	TRANSMITTER	LL	OIL PRESSURE LOW LOW	IP-923			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
 Refer to: 17735-03 P&ID, 17735-21 Control philosophy