



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)**

code-2
M. Vakili

Please note that there is no safety comment on this document but the final approval shall be checked after HAZOP meeting.

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	12-12-2023	Issued for Approval	S.K.	J.J.	S.K.

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Based on Control philosophy, 320-HS-8206 will trip the compressor from

Based on P&ID, compressor could be start or stop from both LCP and DCS. So, all signals shall be shown here.

DOCUMENT TITLE: 17735-27
Cause & Effect chart Compressor

923

EFFECT

IP-920

IP-923

CAUSE					EFFECT					
SIGNALS ARE INCLUDED IN P&ID DOCUMENT					Component	Tag Number				
Instrument Tag	Signal	Type	Description	Interlock						
320-HS-8203	EMERGENCY STOP	BUTTON	EMERGENCY SHUT DOWN LPS	IP-920			SP	DE	x	x
320-HS-8201	START	BUTTON	START COMPRESSOR LPS	IP-922		ST		E		
320-HS-8202	STOP	BUTTON	STOP COMPRESSOR LPS	IP-921			SP	DE		
320-PT-8201	TRANSMITTER	LL	COMPRESSOR INLET PRESSURE LOW LOW	IP-920			SP	DE	x	x
320-PT-8202	TRANSMITTER	LL	2ND STAGE SUCTION PRESSURE LOW LOW	IP-920			SP	DE	x	x
320-TT-8203	TRANSMITTER	HH	2ND STAGE SUCTION TEMPERATURE HIGH HIGH	IP-920			SP	DE	x	x
320-TT-8205	TRANSMITTER	HH	COMPRESSOR OULTET TEMPERATURE HIGH HIGH	IP-920			SP	DE	x	x
320-PT-8203	TRANSMITTER	HH	COMPRESSOR OULTET PRESSURE HIGH HIGH	IP-920			SP	DE	x	x
320-PT-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 ST

- This document will be checked again after finalizing PID document.
 - Reference document should be mentioned.
 - All Tag name in all documents should be same format. no needs "-" after prefix 320.
 example correct format is 320TT-8203,