







OWNER:  شرکت سست و سویی توهم ایرانیان (سهامی عامه)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	CAUSE & EFFECT CHART LIST FOR NITROGEN GAS BOOSTER						 Netherlands		
MC :  شرکت سست و سویی توهم ایرانیان (سهامی عامه)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-27A	BU	20	VD	303	PR	LST	0042	Rev.:	Page
								00	1 of 4

Shall be revised
based on comment
on PID

CAUSE & EFFECT CHART LIST FOR NITROGEN GAS BOOSTER

 شرکت سست و سویی توهم ایرانیان (سهامی عامه)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	Oct.03,2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

00	15/09/2021	For approval	AV	KP	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P



XAL-108-2



- Reply sheet to be submitted by vendor.
 - Prerequisite documents such as I/O List shall be sent before this document.
 - Tag no. to be revised as per comments on PID.
 - following signals to be considered in C&E :
 • C-1002-MOS-1
 • HS-108-1R-1

EFFECT

Tag. Number	Component	N/A	XY-10001	XY-10002	XY-10002	XL-10003	XL-10008	XL-10004	XL-10009
N/A	MOTOR START / STOP								
XY-10001	LOAD / UNLOAD VALVE								
XY-10002	WATER INLET VALVE								
XY-10002	COMMON ALARM TO DCS								
XL-10003	COMMON ALARM LAMP LCP								
XL-10008	COMMON ALARM LAMP UCP								
XL-10004	COMMON TRIP LAMP LCP								
XL-10009	COMMON TRIP LAMP UCP								

CAUSE

This signal is not required

Instrument Tag	Signal	Type	Description
PB-10003	ESD	BUTTON	EMERGENCY SHUT DOWN LCP
PB-100307	ESD	BUTTON	EMERGENCY SHUT DOWN UCP
HS-115-SD-1	ESD	ESD	EMERGENCY SHUT DOWN DCS
XS-115	INTERLOCK	CONTROL	START PERMIT COMPRESSOR
PB-10001	START	BUTTON	START COMPRESSOR LCP
PB-10005	START	BUTTON	START COMPRESSOR UCP
PB-10002	STOP	BUTTON	STOP COMPRESSOR LCP
PB-10006	STOP	BUTTON	STOP COMPRESSOR UCP
PIT-10003	TRANSMITTER	HH	PACKAGE INLET PRESSURE HIGH HIGH
PIT-10003	TRANSMITTER	LL	PACKAGE INLET PRESSURE LOW LOW
PIT-10004	TRANSMITTER	LL	COMPRESSOR OIL PRESSURE LOW LOW
TIT-10002	TRANSMITTER	HH	COMPRESSOR 1st STAGE TEMPERATURE HIGH HIGH
TIT-10003	TRANSMITTER	HH	COMPRESSOR OUTLET TEMPERATURE HIGH HIGH
VT-10001	TRANSMITTER	HH	COMPRESSOR VIBRATION HIGH HIGH
PIT-10007	TRANSMITTER	HH	PACKAGE OUTLET PRESSURE HIGH HIGH
PIT-10007	TRANSMITTER	LL	PACKAGE OUTLET PRESSURE LOW LOW
PIT-10007	TRANSMITTER	H	PACKAGE OUTLET PRESSURE UNLOAD / STOP
PIT-10007	TRANSMITTER	L	PACKAGE OUTLET PRESSURE LOAD / START
TIT-10001	TRANSMITTER	H	PACKAGE INLET TEMPERATURE HIGH
FIT-10001	TRANSMITTER	L	COOLING WATER FLOW LOW
N/A	MOTOR	CONTROL	MOTOR RUNNING FEEDBACK TRIP
N/A	MOTOR	CONTROL	MOTOR FAULT

ESD

Note 3

Note 3 to be specified.

Note 2

Note 1

Legend:



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

NOTES:

1. MOTOR FEEDBACK TRIP, 2 SECOND AFTER START SIGNAL IS SEND AND MOTOR IS NOT SENDING FEEDBACK, THE PACKAGE IS TRIPPED
2. START AND STOP ON LOAD ON UNLOAD IS BASED ON THE TIMERS SPECIFIED IN THE CONTROL PHILOSOPHY

