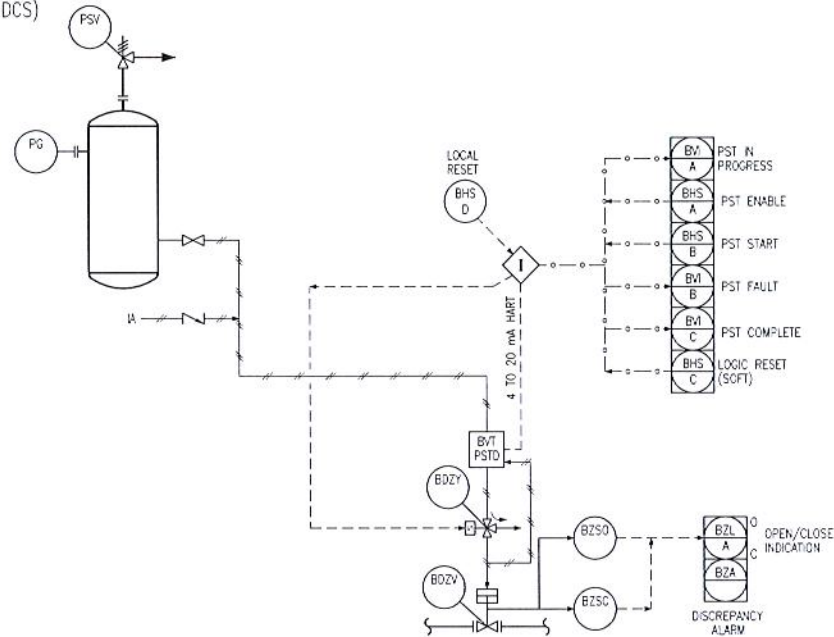
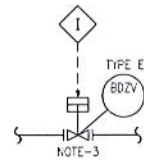


SHOWN ON P&ID

ENGINEERING DETAIL

BLOWDOWN VALVE TYPE-E (1 SOLENOIDS, ESD ACTIVATED) - PARTIAL STROKE TEST WITH SMART POSITIONER
(POSITION SWITCH TO DCS)



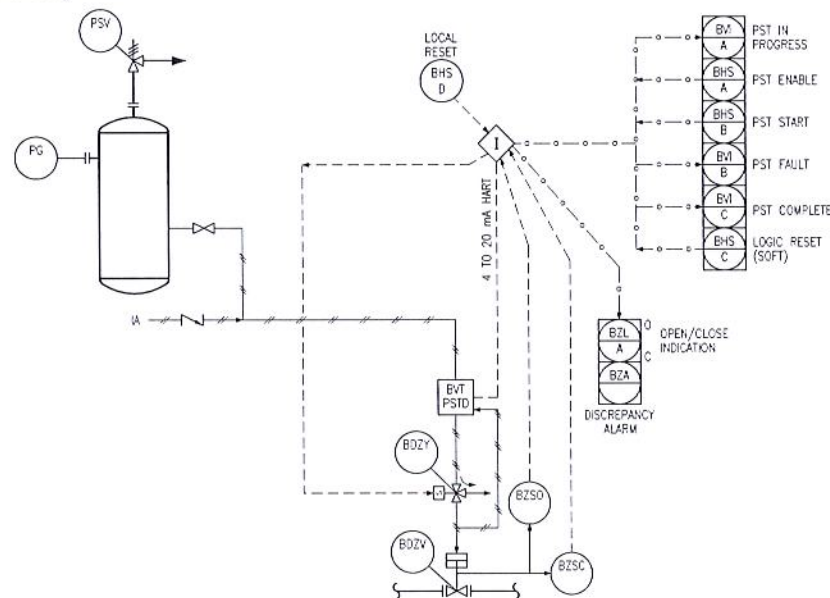
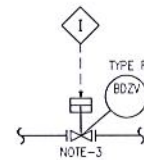
BDV VOLUME TANK DESCRIPTION (FOR BDV TYPE-E)

SYSTEM DESCRIPTION	BDV TAG NO.	VOLUME TANK TAG NO.
Fuel Gas Treatment	PP01-362-BDVZ-0001	PP01-362-SPVT0001
Fuel Gas Treatment	PP01-362-BDVZ-0002	PP01-362-SPVT0002
Fuel Gas Compression	PP01-363-BDVZ-1001	PP01-363-SPVT1001
Fuel Gas Compression	PP01-363-BDVZ-2001	PP01-363-SPVT2001
Fuel Gas Compression	PP01-363-BDVZ-3001	PP01-363-SPVT3001
Fuel Gas Distribution	PP01-364-BDVZ-0001	PP01-364-SPVT0001

NOTES:

1. VESSEL PART OF INSTRUMENTATION PACKAGE IS NOT INCLUDED IN MAIN MECHANICAL EQUIPMENT LIST.
2. AIR RESERVOIR FOR THREE VALVE STROKES
3. FAIL ACTION TO BE SHOWN BENEATH VALVE ON P&ID.

BLOWDOWN VALVE TYPE-F (1 SOLENOIDS, ESD ACTIVATED) - PARTIAL STROKE TEST WITH SMART POSITIONER
(POSITION SWITCH TO ESD)



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
C01	25.05.16	ISSUED FOR CONSTRUCTION	DX	VJ	AB SQ
D01	18.02.16	ISSUED FOR USE (DO)	DX	SI/WJ	AB SQ
H01	28.12.15	ISSUED FOR HAZOP (DO)	DX	SI/WJ	AB SQ
G01	26.10.15	ISSUED FOR REVIEW (DO)	DX	SI/WJ	TT SQ
A02	13.07.15	RE-ISSUED FOR COMPANY REVIEW	DX	SI/RS	TT SQ
A01	28.05.15	ISSUED FOR COMPANY REVIEW	DX	SI/RS	TT SQ



EARLY POWER PLANT
RUMAILA OIL FIELD
CONTRACT NO. 100478



中国石油工程建设公司
CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORP.



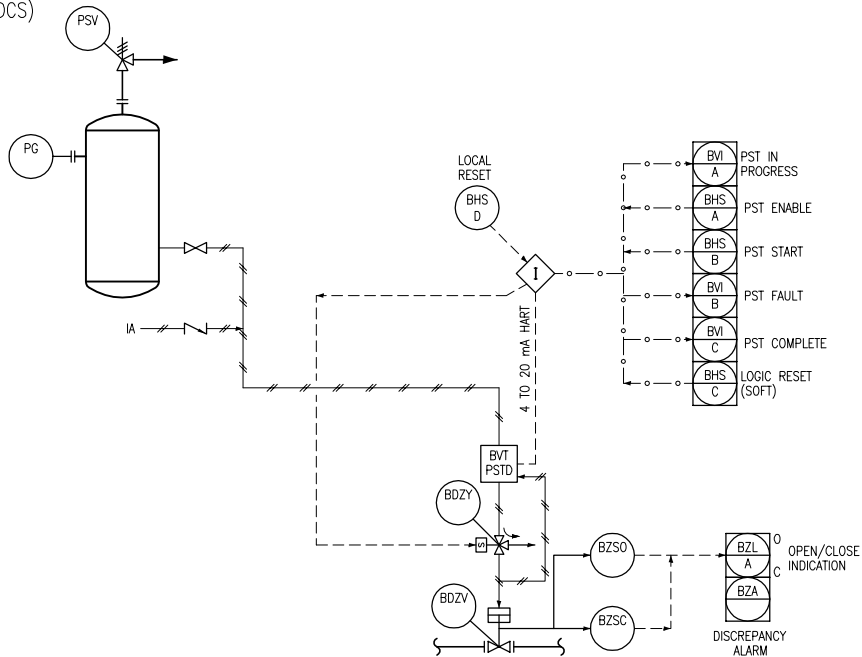
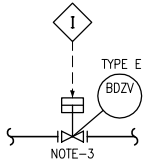
DRAWING TITLE:
PIPING AND INSTRUMENTATION DIAGRAM
LEGEND SHEET
VALVE TYPICALS 4

PROJECT NO.	100478CP	SCALE	NONE	DWG. SIZE	A1
DRAWING NUMBER	100478CP-N-PG-PP01-PR-PID-0001-013	SHT. NO.	13	REV	001

SHOWN ON P&ID

ENGINEERING DETAIL

BLOWDOWN VALVE TYPE-E (1 SOLENOIDS, ESD ACTIVATED) – PARTIAL STROKE TEST WITH SMART POSITIONER (POSITION SWITCH TO DCS)



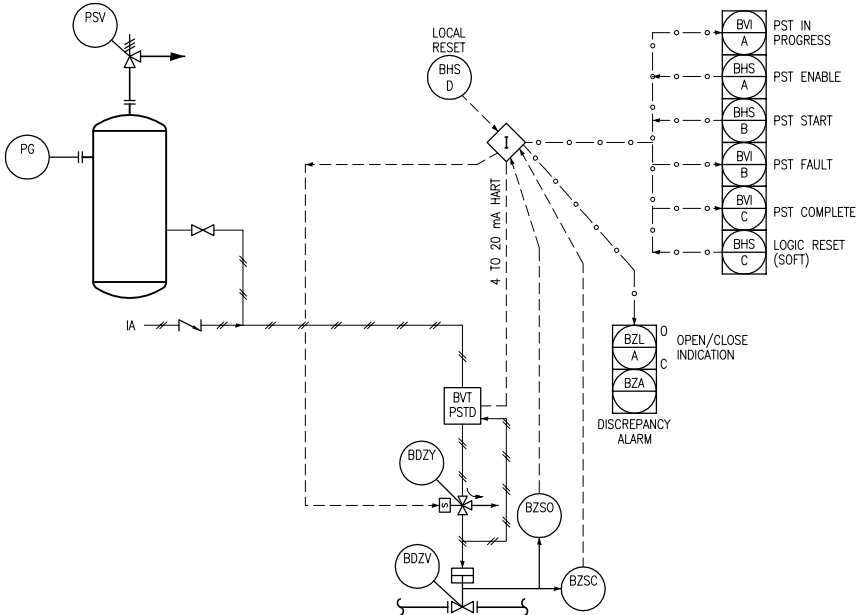
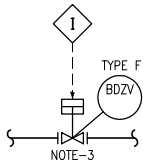
BDV VOLUME TANK DESCRIPTION (FOR BDV TYPE-E)

SYSTEM DESCRIPTION	BDV TAG NO.	VOLUME TANK TAG NO.
Fuel Gas Treatment	PP01-362-BDVZ-0001	PP01-362-SPVT0001
Fuel Gas Treatment	PP01-362-BDVZ-0002	PP01-362-SPVT0002
Fuel Gas Compression	PP01-363-BDVZ-1001	PP01-363-SPVT1001
Fuel Gas Compression	PP01-363-BDVZ-2001	PP01-363-SPVT2001
Fuel Gas Compression	PP01-363-BDVZ-3001	PP01-363-SPVT3001
Fuel Gas Distribution	PP01-364-BDVZ-0001	PP01-364-SPVT0001

NOTES:

1. VESSEL PART OF INSTRUMENTATION PACKAGE IS NOT INCLUDED IN MAIN MECHANICAL EQUIPMENT LIST.
2. AIR RESERVOIR FOR THREE VALVE STROKES.
3. FAIL ACTION TO BE SHOWN BENEATH VALVE ON P&ID.

BLOWDOWN VALVE TYPE-F (1 SOLENOIDS, ESD ACTIVATED) – PARTIAL STROKE TEST WITH SMART POSITIONER (POSITION SWITCH TO ESD)



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
C01	25.05.16	ISSUED FOR CONSTRUCTION	DX	VU	AB
D01	18.02.16	ISSUED FOR USE (DD)	DX	SI/WU	AB
H01	28.12.15	ISSUED FOR HAZOP (DD)	DX	SI/WU	AB
G01	26.10.15	ISSUED FOR REVIEW (DD)	DX	SI/WU	TT
A02	13.07.15	RE-ISSUED FOR COMPANY REVIEW	DX	SI/RS	TT
A01	28.05.15	ISSUED FOR COMPANY REVIEW	DX	SI/RS	TT



EARLY POWER PLANT
RUMAILA OIL FIELD
CONTRACT NO. 100478



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CH2MHILL

DRAWING TITLE:
PIPING AND INSTRUMENTATION DIAGRAM
LEGEND SHEET
VALVE TYPICALS 4

PROJECT NO.	100478CP	SCALE:	NONE	DWG SIZE:	A1
DRAWING NUMBER:	100478CP-N-PG-PP01-PR-PID-0001-013	SHT. NO.:	13/17	REV.	C01