

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0010_08)								
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طرح نگهداشت و افزایش تولید ۲۷ مخزن

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V01	MAR.2024	IFA	MFS	M.Fakharian	S.Faramarzpour	
V00	FEB.2024	IFA	MFS	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

status:

IFA: Issued For Approval

IFI: Issued For Information

AFC: Approved For Construction

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0010_08)						 mfs		
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1	General/ Management			
1.1	List			
1.1.1	BK-GCS-MF-120-PM-LI-0001	VENDOR PRINT INDEX & SCHEDULE (VPIS)	IFA/AFC	
1.1.2	BK-GCS-MF-120-PM-WB-0001	WORK BEAKDOWN STRUCTURE	IFA/AFC	
1.1.3	BK-GCS-MF-120-GE-SH-0001	TIME SCHEDULE	IFI	
1.1.5	BK-GCS-MF-120-GE-LI-0002	FINAL VENDOR DATA BOOK INDEX	IFA/AFC	
1.1.6	BK-GCS-MF-120-GE-VL-0001	SUB VENDOR LIST	IFI	
1.1.7	BK-GCS-MF-120-GE-LI-0002	SPARE PART LIST	IFI	
1.2	Reports			
1.2.1	BK-GCS-MF-120-GE-DO-0001	FINAL VENDOR DATA BOOK	IFA/AFC	
2	QA/QC			
2.1	Procedure/Plan			
2.1.1	BK-GCS-MF-120-QC-PR-0001	HARDNESS TESTING PROCEDURE (TOWER, COLUMNS, REBOILER, DRUMS, FILTERS & EXCHANGERS)	IFA/AFC	
2.1.2	BK-GCS-MF-120-QC-PR-0002	INSPECTION AND TEST PLAN (ITP)	IFA/AFC	
2.1.3	BK-GCS-MF-120-QC-PR-0003	QUALITY CONTROL PLAN (QCP)	IFA/AFC	
2.1.4	BK-GCS-MF-120-QC-PR-0004	SURFACE PREPARATION AND INTERNAL/EXTERNAL PAINTING PROCEDURE FOR TOWER, COLUMNS, REBOILER, DRUMS, FILTERS & EXCHANGERS	IFA/AFC	
2.1.5	BK-GCS-MF-120-QC-PR-0005	PICKLING AND PASSIVATION PROCEDURE	IFA/AFC	
2.1.6	BK-GCS-MF-120-QC-PR-0006	POSTWELD HEAT TREATMENT PROCEDURE (TOWER, COLUMNS, REBOILER, DRUMS, FILTERS & EXCHANGERS)	IFA/AFC	
2.1.7	BK-GCS-MF-120-QC-PR-0007	WPS & PQR (TOWER, COLUMNS, REBOILER, DRUMS, FILTERS & EXCHANGERS)	IFA/AFC	
2.1.8	BK-GCS-MF-120-QC-PR-0008	PMI PROCEDURE (TOWER, COLUMNS, REBOILER, DRUMS, FILTERS & EXCHANGERS)	IFA/AFC	
2.1.9	BK-GCS-MF-120-QC-PR-0009	NDT PROCEDURE (TOWER, COLUMNS, REBOILER, DRUMS, FILTERS & EXCHANGERS)	IFA/AFC	
2.1.10	BK-GCS-MF-120-QC-PR-0010	HYDROSTATIC TESTING PROCEDURE (TOWER, COLUMNS, REBOILER, DRUMS & FILTERS)	IFA/AFC	
2.1.11	BK-GCS-MF-120-QC-PR-0011	HYDROSTATIC TEST PROCEDURE FOR HEAT EXCHANGERS	IFA/AFC	
2.1.12	BK-GCS-MF-120-QC-PR-0012	WELD REPAIR PROCEDURE	IFA/AFC	
2.1.13	BK-GCS-MF-120-QC-PR-0013	PACKING, MARKING, SHIPPING PROCEDURE	IFA/AFC	
2.1.14	BK-GCS-MF-120-QC-PR-0014	N2 PURGING PROCEDURE	IFA/AFC	
2.1.15	BK-GCS-MF-120-QC-PR-0015	SAT PROCEDURE FOR GAS DEHYDRATION PACKAGE	IFA/AFC	



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2.2	Manual			
2.2.1	BK-GCS-MF-120-QC-ML-0001	OPERATION, COMMISSIONING & MAINTENANCE MANUAL FOR GAS DEHYDRATION PACKAGE	IFI	
3	Process			
3.1	Basis/Criteria			
3.1.1	BK-GCS-MF-120-PR-DB-0001	BASIS OF PROCESS DESIGN FOR GAS DEHYDRATION PACKAGE	IFA/AFC	
3.2	Philosophy			
3.2.1	BK-GCS-MF-120-PR-PH-0001	CONTROL PHILOSOPHY	IFA/AFC	
3.3	Calculation			
3.3.1	BK-GCS-MF-120-PR-CN-0001	PRESSURE SAFETY VALVE CALCULATION SHEETS	IFA/AFC	
3.4	Datasheet			
3.4.1	BK-GCS-MF-120-PR-DS-0001	PROCESS DATA SHEET FOR DEHYDRATION COLUMN	IFA/AFC	
3.4.2	BK-GCS-MF-120-PR-DS-0002	PROCESS DATA SHEET FOR GLYCOL FLASH DRUM	IFA/AFC	
3.4.3	BK-GCS-MF-120-PR-DS-0003	PROCESS DATA SHEET FOR GLYCOL PARTICLE FILTER	IFA/AFC	
3.4.4	BK-GCS-MF-120-PR-DS-0004	PROCESS DATA SHEET FOR GLYCOL CARBON FILTER	IFA/AFC	
3.4.5	BK-GCS-MF-120-PR-DS-0005	PROCESS DATA SHEET FOR GLYCOL STILL COLUMN	IFA/AFC	
3.4.6	BK-GCS-MF-120-PR-DS-0006	PROCESS DATA SHEET FOR GLYCOL CIRCULATION PUMPS	IFA/AFC	
3.4.7	BK-GCS-MF-120-PR-DS-0007	PROCESS DATA SHEET FOR LEAN GLYCOL DRY GAS HEAT EXCHSNGER	IFA/AFC	
3.4.8	BK-GCS-MF-120-PR-DS-0008	PROCESS DATA SHEET FOR RICH / LEAN GLYCOL HEAT EXCHANGER	IFA/AFC	
3.4.9	BK-GCS-MF-120-PR-DS-0009	PROCESS DATA SHEET FOR GLYCOL STILL COLUMN CONDENSER	IFA/AFC	
3.4.10	BK-GCS-MF-120-PR-DS-0010	PROCESS DATA SHEET FOR GLYCOL REBOILER & SURGE DRUM	IFA/AFC	
3.4.11	BK-GCS-MF-120-PR-DS-0011	PROCESS DATA SHEET FOR ANTI-FOAM PACKAGE	IFA/AFC	
3.4.12	BK-GCS-MF-120-PR-DS-0012	PROCESS DATA SHEET FOR PH-CONTROLLER PACKAGE	IFA/AFC	
3.4.13	BK-GCS-MF-120-PR-DS-0013	PROCESS DATA SHEET FOR PRESSURE SAFETY VALVES	IFA/AFC	
3.5	Drawing/Diagram			
3.5.1	BK-GCS-MF-120-PR-PF-0001	PROCESS FLOW DIAGRAM FOR GAS DEHYDRATION PACKAGE	IFA/AFC	
3.5.2	BK-GCS-MF-120-PR-PF-0002	HEAT AND MASS BALANCE FOR GAS DEHYDRATION PACKAGE	IFA/AFC	
3.5.3	BK-GCS-MF-120-PR-PI-0003	PIPING & INSTRUMENTATION DIAGRAM FOR GAS DEHYDRATION PACKAGE	IFA/AFC	
3.5.4	BK-GCS-MF-120-PR-CE-0001	CAUSE AND EFFECT DIAGRAM FOR GAS DEHYDRATION PACKAGE	IFA/AFC	

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3.6	List			
3.6.1	BK-GCS-MF-120-PR-LI-0001	EQUIPMENT LIST	IFI	
3.6.2	BK-GCS-MF-120-PR-LI-0002	ALARM & TRIP SET POINT LIST	IFI	
3.6.3	BK-GCS-MF-120-PR-LI-0003	UTILITY CONSUMPTION LIST	IFI	
3.6.4	BK-GCS-MF-120-PR-LI-0004	CHEMICAL CONSUMPTION LIST	IFI	
3.6.5	BK-GCS-MF-120-PR-LI-0005	LUBRICATION LIST	IFI	
3.7	Reports			
3.7.1	BK-GCS-MF-120-PR-RE-0001	HAZOP STUDY REPORT	IFI	
3.7.2	BK-GCS-MF-120-PR-RE-0002	SIL STUDY REPORT	IFI	
4	Mechanical			
4.1	Fixed Equipment			
4.1.1	Glycol Contactor (C-100)			
4.1.1.1	BK-GCS-MF-120-ME-CN-0001	MECHANICAL CALCULATION BOOK FOR GLYCOL CONTACTOR (C-100)	IFI	
4.1.1.2	BK-GCS-MF-120-ME-DW-0001	GENERAL ARRANGEMENT FOR GLYCOL CONTACTOR (C-100)	IFA/AFC	
4.1.1.3	BK-GCS-MF-120-ME-DW-0002	DETAILS DRAWING FOR GLYCOL CONTACTOR (C-100)	IFI	
4.1.1.4	BK-GCS-MF-120-ME-DW-0003	NAME PLATE DETAIL DRAWING FOR GLYCOL CONTACTOR (C-100)	IFA/AFC	
4.1.1.5	BK-GCS-MF-120-ME-DW-0004	TEMPLATE DRAWING FOR GLYCOL CONTACTOR (C-100)	IFI	
4.1.1.6	BK-GCS-MF-120-ME-MP-0001	WELDING & NDT MAP FOR GLYCOL CONTACTOR (C-100)	IFI	
4.1.2	Still Column (C-200)			
4.1.2.1	BK-GCS-MF-120-ME-CN-0002	MECHANICAL CALCULATION BOOK FOR STILL COLUMN (C-200)	IFI	
4.1.2.2	BK-GCS-MF-120-ME-DW-0005	GENERAL ARRANGEMENT FOR STILL COLUMN (C-200)	IFA/AFC	
4.1.2.3	BK-GCS-MF-120-ME-DW-0006	DETAILS DRAWING FOR STILL COLUMN (C-200)	IFI	
4.1.2.4	BK-GCS-MF-120-ME-DW-0007	NAME PLATE DETAIL DRAWING FOR STILL COLUMN (C-200)	IFA/AFC	
4.1.2.5	BK-GCS-MF-120-ME-MP-0002	WELDING & NDT MAP FOR STILL COLUMN (C-200)	IFI	
4.1.3	Glycol Flash Drum (V-120)			
4.1.3.1	BK-GCS-MF-120-ME-CN-0003	MECHANICAL CALCULATION BOOK FOR GLYCOL FLASH DRUM (V-120)	IFI	
4.1.3.2	BK-GCS-MF-120-ME-DW-0008	GENERAL ARRANGEMENT FOR GLYCOL FLASH DRUM (V-120)	IFA/AFC	
4.1.3.3	BK-GCS-MF-120-ME-DW-0009	DETAILS DRAWING FOR GLYCOL FLASH DRUM (V-120)	IFI	



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4.1.3.4	BK-GCS-MF-120-ME-DW-0010	NAME PLATE DETAIL DRAWING FOR GLYCOL FLASH DRUM (V-120)	IFA/AFC	
4.1.3.5	BK-GCS-MF-120-ME-MP-0003	WELDING & NDT MAP FOR GLYCOL FLASH DRUM (V-120)	IFI	
4.1.4	Particle Glycol Filter (F-100 A/B)			
4.1.4.1	BK-GCS-MF-120-ME-CN-0004	MECHANICAL CALCULATION BOOK FOR PARTICLE GLYCOL FILTER (F-100 A/B)	IFI	
4.1.4.2	BK-GCS-MF-120-ME-DW-0011	GENERAL ARRANGEMENT FOR PARTICLE GLYCOL FILTER (F-100 A/B)	IFA/AFC	
4.1.4.3	BK-GCS-MF-120-ME-DW-0012	DETAILS DRAWING FOR PARTICLE GLYCOL FILTER (F-100 A/B)	IFI	
4.1.4.4	BK-GCS-MF-120-ME-DW-0013	NAME PLATE DETAIL DRAWING FOR PARTICLE GLYCOL FILTER (F-100 A/B)	IFA/AFC	
4.1.4.5	BK-GCS-MF-120-ME-MP-0004	WELDING & NDT MAP FOR PARTICLE GLYCOL FILTER (F-100 A/B)	IFI	
4.1.5	Glycol Filter (F-200)			
4.1.5.1	BK-GCS-MF-120-ME-CN-0005	MECHANICAL CALCULATION BOOK FOR GLYCOL FILTER (F-200)	IFI	
4.1.5.2	BK-GCS-MF-120-ME-DW-0014	GENERAL ARRANGEMENT FOR GLYCOL FILTER (F-200)	IFA/AFC	
4.1.5.3	BK-GCS-MF-120-ME-DW-0015	DETAILS DRAWING FOR GLYCOL FILTER (F-200)	IFI	
4.1.5.4	BK-GCS-MF-120-ME-DW-0016	NAME PLATE DETAIL DRAWING FOR GLYCOL FILTER (F-200)	IFA/AFC	
4.1.5.5	BK-GCS-MF-120-ME-MP-0005	WELDING & NDT MAP FOR GLYCOL FILTER (F-200)	IFI	
4.1.6	Glycol Reflux Condenser (E-100)			
4.1.6.1	BK-GCS-MF-120-ME-CN-0006	THERMAL/MECHANICAL CALCULATION BOOK FOR GLYCOL REFLUX CONDENSER (E-100)	IFI	
4.1.6.2	BK-GCS-MF-120-ME-DW-0017	GENERAL ARRANGEMENT FOR GLYCOL REFLUX CONDENSER (E-100)	IFA/AFC	
4.1.6.3	BK-GCS-MF-120-ME-DW-0018	DETAILS DRAWING FOR GLYCOL REFLUX CONDENSER (E-100)	IFI	
4.1.6.4	BK-GCS-MF-120-ME-DW-0019	NAME PLATE DETAIL DRAWING FOR GLYCOL REFLUX CONDENSER (E-100)	IFA/AFC	
4.1.6.5	BK-GCS-MF-120-ME-MP-0006	WELDING & NDT MAP FOR GLYCOL REFLUX CONDENSER (E-100)	IFI	
4.1.7	Rich-Lean Glycol Heat Exchanger (E-200)			
4.1.7.1	BK-GCS-MF-120-ME-CN-0007	THERMAL/MECHANICAL CALCULATION BOOK FOR RICH-LEAN GLYCOL H.E. (E-200)	IFI	
4.1.7.2	BK-GCS-MF-120-ME-DW-0020	GENERAL ARRANGEMENT FOR RICH-LEAN GLYCOL H.E. (E-200)	IFA/AFC	
4.1.7.3	BK-GCS-MF-120-ME-DW-0021	DETAILS DRAWING FOR RICH-LEAN GLYCOL H.E. (E-200)	IFI	
4.1.7.4	BK-GCS-MF-120-ME-DW-0022	NAME PLATE DETAIL DRAWING FOR RICH-LEAN GLYCOL H.E. (E-200)	IFA/AFC	
4.1.7.5	BK-GCS-MF-120-ME-MP-0007	WELDING & NDT MAP FOR RICH-LEAN GLYCOL H.E. (E-200)	IFI	
4.1.8	Lean Glycol-Dry Gas Heat Exchanger (E-300)			
4.1.8.1	BK-GCS-MF-120-ME-CN-0008	THERMAL/MECHANICAL CALCULATION BOOK FOR LEAN GLYCOL GAS H.E. (E-300)	IFI	



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4.1.8.2	BK-GCS-MF-120-ME-DW-0023	GENERAL ARRANGEMENT FOR LEAN GLYCOL GAS H.E. (E-300)	IFA/AFC	
4.1.8.3	BK-GCS-MF-120-ME-DW-0024	DETAILS DRAWING FOR LEAN GLYCOL GAS H.E. (E-300)	IFI	
4.1.8.4	BK-GCS-MF-120-ME-DW-0025	NAME PLATE DETAIL DRAWING FOR LEAN GLYCOL GAS H.E. (E-300)	IFA/AFC	
4.1.8.5	BK-GCS-MF-120-ME-MP-0008	WELDING & NDT MAP FOR LEAN GLYCOL GAS H.E. (E-300)	IFI	
4.1.9	Reboiler (R-100)			
4.1.9.1	BK-GCS-MF-120-ME-CN-0009	THERMAL/MECHANICAL CALCULATION BOOK FOR REBOILER (R-100)	IFI	
4.1.9.2	BK-GCS-MF-120-ME-DW-0026	GENERAL ARRANGEMENT FOR REBOILER (R-100)	IFA/AFC	
4.1.9.3	BK-GCS-MF-120-ME-DW-0027	DETAILS DRAWING FOR REBOILER (R-100)	IFI	
4.1.9.4	BK-GCS-MF-120-ME-DW-0028	NAME PLATE DETAIL DRAWING FOR REBOILER (R-100)	IFA/AFC	
4.1.9.5	BK-GCS-MF-120-ME-MP-0009	WELDING & NDT MAP FOR REBOILER (R-100)	IFI	
4.2	Machinery/Package			
4.2.1	Pumps			
4.2.1.1	BK-GCS-MF-120-ME-DW-0029	GENERAL ASSEMBLY DRAWING FOR GLYCOL CIRCULATION PUMPS	IFA/AFC	
4.2.1.2	BK-GCS-MF-120-ME-DW-0030	PUMPS CROSS SECTIONAL DRAWING FOR GLYCOL CIRCULATION PUMPS	IFI	
4.2.1.3	BK-GCS-MF-120-ME-DW-0031	NAME PLATE FOR GLYCOL CIRCULATION PUMPS	IFA/AFC	
4.2.2	Burner			
4.2.2.1	BK-GCS-MF-120-ME-DS-0001	BURNER DATA SHEET FOR GLYCOL REBOILER	IFI	
4.2.2.2	BK-GCS-MF-120-ME-DW-0032	BURNER DRAWING FOR GLYCOL REBOILER	IFI	
6	Piping			
6.1	Drawing			
6.1.1	BK-GCS-MF-120-PI-DW-0001	PACKAGE PLOT PLAN DRAWING	IFA/AFC	
6.1.2	BK-GCS-MF-120-PI-DW-0002	PIPING GENERAL ARRANGEMENT DRAWING	IFA/AFC	
6.1.3	BK-GCS-MF-120-PI-DW-0003	PIPING ISOMETRIC DRAWING FOR GAS DEHYDRATION PACKAGE	IFI	
6.2	List			
6.2.1	BK-GCS-MF-120-PI-LI-0001	LINE LIST	IFI	
6.2.2	BK-GCS-MF-120-PI-LI-0002	TIE-IN-LIST	IFA/AFC	
6.3	Reports			
6.3.1	BK-GCS-MF-120-PI-RT-0001	PDMS MODEL REVIEW REPORT (60%)	IFA/AFC	



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سطح الارض و ابنیه تحت الارض

خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک
(قرارداد BK-HD-GCS-CO-0010_08)



VENDOR PRINT INDEX & SCHEDULE (VPIS)

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S/R No.	Doc. No.	Document Description	Status	Remarks
6.3.2	BK-GCS-MF-120-PI-RT-0002	PDMS MODEL REVIEW REPORT (90%)	IFA/AFC	
6.3.3	BK-GCS-MF-120-PI-RT-0003	STRESS ANALYSIS REPORT	IFI	
7	Instrument			
7.1	Calculation			
7.1.1	BK-GCS-MF-120-IN-CN-0001	CONTROL VALVE CALCULATION SHEETS	IFA/AFC	
7.1.2	BK-GCS-MF-120-IN-CN-0002	FLOW ELEMENT CALCULATION SHEETS	IFA/AFC	
7.2	Drawing			
7.2.1	BK-GCS-MF-120-IN-DW-0001	CONTROL SYSTEM CONFIGURATION BLOCK DIAGRAM	IFA/AFC	
7.2.2	BK-GCS-MF-120-IN-DW-0002	ESD/BMS SYSTEM CONFIGURATION BLOCK DIAGRAM	IFA/AFC	
7.2.3	BK-GCS-MF-120-IN-DW-0003	INSTRUMENT JUNCTION BOX LAYOUT AND WIRING TERMINATION DIAGRAM	IFA/AFC	
7.2.4	BK-GCS-MF-120-IN-DW-0004	BURNER OPERATION PANEL LAYOUT & WIRING DIAGRAM WITH CONNECTIONS & DIMENSIONS	IFA/AFC	
7.2.5	BK-GCS-MF-120-IN-DW-0005	HOOK UP DRAWING	IFA/AFC	
7.2.6	BK-GCS-MF-120-IN-DW-0006	INSTRUMENT LOCATION LAYOUT	IFA/AFC	
7.2.7	BK-GCS-MF-120-IN-DW-0007	CONTROL PANEL LAYOUT AND ARRANGEMENT	IFA/AFC	
7.2.8	BK-GCS-MF-120-IN-DW-0008	ESD/BMS PANEL LAYOUT AND ARRANGEMENT	IFA/AFC	
7.2.9	BK-GCS-MF-120-IN-DW-0009	CONTROL SYSTEM WIRING DIAGRAM AND CONNECTIONS	IFA/AFC	
7.2.10	BK-GCS-MF-120-IN-DW-0010	ESD/BMS SYSTEM WIRING DIAGRAM AND CONNECTIONS	IFA/AFC	
7.2.11	BK-GCS-MF-120-IN-DW-0011	CONTROL SYSTEM LOGIC DIAGRAM	IFA/AFC	
7.2.12	BK-GCS-MF-120-IN-DW-0012	ESD/BMS SYSTEM LOGIC DIAGRAM	IFA/AFC	
7.2.13	BK-GCS-MF-120-IN-DW-0013	PRINT OUT OF HMI FOR BMS AND UCP	IFA/AFC	
7.2.14	BK-GCS-MF-120-IN-DW-0014	CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING	IFA/AFC	
7.2.15	BK-GCS-MF-120-IN-DW-0015	INSTRUMENT EARTH DISTRIBUTION DIAGRAM	IFA/AFC	
7.2.18	BK-GCS-MF-120-IN-DW-0016	INSTRUMENT CABLE ROUTE/ MAIN TUBING LAYOUT DRAWING	IFA/AFC	
7.2.19	BK-GCS-MF-120-IN-DW-0017	ESD LEVEL HIERARCHY	IFA/AFC	
7.3	Datasheet			
7.3.1	BK-GCS-MF-120-IN-DS-0001	INSTRUMENT D.S. FOR CONTROL VALVES	IFA/AFC	
7.3.2	BK-GCS-MF-120-IN-DS-0002	INSTRUMENT D.S. FOR ON/OFF VALVES	IFA/AFC	



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7.3.3	BK-GCS-MF-120-IN-DS-0003	INSTRUMENT D.S. FOR H2O ANALYZER	IFA/AFC	
7.3.4	BK-GCS-MF-120-IN-DS-0004	INSTRUMENT D.S. FOR TEMPERATURE GAUGE	IFA/AFC	
7.3.5	BK-GCS-MF-120-IN-DS-0005	INSTRUMENT D.S. FOR TEMPERATURE TRANSMITTERS	IFA/AFC	
7.3.6	BK-GCS-MF-120-IN-DS-0006	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES	IFA/AFC	
7.3.7	BK-GCS-MF-120-IN-DS-0007	INSTRUMENT D.S. FOR PRESSURE TRANSMITTERS AND DIFFE. PRESSURE TRANSMITTERS	IFA/AFC	
7.3.8	BK-GCS-MF-120-IN-DS-0008	INSTRUMENT D.S. FOR PRESSURE REGULATOR VALVES	IFA/AFC	
7.3.9	BK-GCS-MF-120-IN-DS-0009	INSTRUMENT D.S. FOR FLOW ELEMENTS	IFA/AFC	
7.3.10	BK-GCS-MF-120-IN-DS-0010	INSTRUMENT D.S. FOR LEVEL GAUGES	IFA/AFC	
7.3.11	BK-GCS-MF-120-IN-DS-0011	INSTRUMENT D.S. FOR LEVEL TRANSMITTERS	IFA/AFC	
7.3.12	BK-GCS-MF-120-IN-DS-0012	FLAME SCANNER DATA SHEET	IFA/AFC	
7.4	Procedure/Plan			
7.4.1	BK-GCS-MF-120-IN-PR-0001	FAT PROCEDURE FOR CONTROL SYSTEM	IFA/AFC	
7.4.2	BK-GCS-MF-120-IN-PR-0002	FAT PROCEDURE FOR ESD/BMS SYSTEM	IFA/AFC	
7.4.3	BK-GCS-MF-120-IN-PR-0003	SAT PROCEDURE FOR CONTROL SYSTEM	IFA/AFC	
7.4.4	BK-GCS-MF-120-IN-PR-0004	SAT PROCEDURE FOR ESD/BMS SYSTEM	IFA/AFC	
7.5	List			
7.5.1	BK-GCS-MF-120-IN-LI-0001	INSTRUMENT LIST	IFI	
7.5.2	BK-GCS-MF-120-IN-LI-0002	INPUT/OUTPUT SIGNAL LIST	IFI	
7.5.3	BK-GCS-MF-120-IN-LI-0003	INSTRUMENT CABLE LIST	IFI	
7.5.4	BK-GCS-MF-120-IN-LI-0004	UCP AND BMS SYSTEM POWER CONSUMPTION LIST	IFI	
7.5.5	BK-GCS-MF-120-IN-LI-0005	MODBUS IO LIST (MODBUS MAPPING LIST)	IFI	
8	Electrical			
8.1	Drawing			
8.1.1	BK-GCS-MF-120-EL-DW-0001	ELECTRICAL SINGLE LINE DIAGRAM	IFA/AFC	
8.1.2	BK-GCS-MF-120-EL-DW-0002	EARTHING DETAIL LAYOUT	IFA/AFC	
8.1.3	BK-GCS-MF-120-EL-DW-0003	ELECTRICAL CABLE ROUTE	IFI	
8.1.4	BK-GCS-MF-120-EL-DW-0004	ELECTRICAL PANEL LAYOUT AND WIRING DIAGRAM	IFA/AFC	
8.1.5	BK-GCS-MF-120-EL-DW-0005	LOCAL CONTROL STATION (LCS) PANEL LAYOUT AND WIRING DIAGRAM	IFA/AFC	



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8.1.6	BK-GCS-MF-120-EL-DW-0006	ELECTRICAL EQUIPMENT LAYOUT	IFA/AFC	
8.2	List			
8.2.1	BK-GCS-MF-120-EL-LI-0001	POWER AND CONTROL CABLE LIST	IFI	
8.2.2	BK-GCS-MF-120-EL-LI-0002	ELECTRICAL LOAD LIST	IFI	
8.2.2	BK-GCS-MF-120-EL-LI-0003	ELECTRICAL SIGNAL LIST	IFI	
8.3	Datasheet			
8.3.1	BK-GCS-MF-120-EL-DS-0001	ELECTRICAL MOTOR DATASHEETS	IFA/AFC	
8.3.2	BK-GCS-MF-120-EL-DS-0002	CABLE DATASHEETS	IFA/AFC	
8.3.3	BK-GCS-MF-120-EL-DS-0003	ELECTRICAL PANEL DATASHEETS	IFA/AFC	
8.3.4	BK-GCS-MF-120-EL-DS-0004	LOCAL CONTROL STATION (LCS) DATASHEETS	IFA/AFC	
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9.1	Calculation			
9.1.1	BK-GCS-MF-120-ST-CN-0001	STRUCTURAL DESIGN CALCULATION FOR GAS DEHYDRATION PACKAGE	IFA/AFC	
9.1.2	BK-GCS-MF-120-ST-CN-0002	FOUNDATION LOADING DATA FOR GAS DEHYDRATION PACKAGE	IFI	
9.2	Drawing			
9.2.1	BK-GCS-MF-120-ST-DW-0001	STEEL STRUCTURAL DETAIL DRAWING FOR GAS DEHYDRATION PACKAGE	IFA/AFC	