

DIRECT CONTACT STEAM GENERATOR NATURAL RESOURCES CANADA ELECTRICAL DRAWING PACKAGE

GENERAL		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC4-001	0	DRAWING LIST
DCSG-BCC4-005	0	SINGLE LINE POWER DISTRIBUTION
DCSG-BCC4-006	0	VSD SINGLE LINE POWER DISTRIBUTION
DCSG-BCC4-007	0	MCC#2 SINGLE LINE POWER DISTRIBUTION
DCSG-BCC4-008	0	MCC#1 SINGLE LINE POWER DISTRIBUTION
DCSG-BCC4-009	0	PROCESS/OILY WATER PUMPS SINGLE LINE
DCSG-BCC4-010	0	HEAT TRACING SINGLE LINE POWER DIST
DCSG-BCC4-015	0	120VAC POWER DISTRIBUTION
DCSG-BCC4-020	0	24VDC POWER DISTRIBUTION
DCSG-BCC4-021	0	24VDC POWER DISTRIBUTION
DCSG-BCC4-030	0	E-NET NETWORK DRAWING
DCSG-BCC4-031	0	PROFIBUS NETWORK DRAWING
DCSG-BCC4-040	0	CABLE TRAY GROUND LEVEL HALLWAY
DCSG-BCC4-041	0	CABLE TRAY GROUND LEVEL PLAN
DCSG-BCC4-042	0	CABLE TRAY GROUND LEVEL - OUTSIDE
DCSG-BCC4-043	0	CABLE TRAY OUTSIDE PLAN
DCSG-BCC4-044	0	CABLE TRAY SECOND LEVEL PLAN
DCSG-BCC4-045	0	CABLE TRAY B.O.M.
DCSG-BCC4-050	0	CABINETS CABLE DISTRIBUTION
DCSG-BCC4-051	0	FIELD AJB CABLE SCHEDULE
DCSG-BCC4-052	0	FIELD DJB (1) CABLE SCHEDULE
DCSG-BCC4-053	0	FIELD DJB (2) CABLE SCHEDULE
DCSG-BCC4-054	0	FIELD THERMOCOUPLE CABLE SCHEDULE
DCSG-BCC4-055	0	FIELD ANALOG DEVICES (1) CABLE SCHEDULE
DCSG-BCC4-056	0	FIELD ANALOG DEVICES (2) CABLE SCHEDULE
DCSG-BCC4-057	0	FIELD OUTPUT POWER CABLE SCHEDULE

DCS - ANALOG CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC4-100	0	MAIN DCS CABINET ASSEMBLY
DCSG-BCC4-101	0	ANALOG INPUT WIRING N1-M1
DCSG-BCC4-102	0	ANALOG INPUT WIRING N1-M2
DCSG-BCC4-103	0	ANALOG INPUT WIRING N1-M3
DCSG-BCC4-104	0	ANALOG INPUT WIRING N1-M4
DCSG-BCC4-105	0	ANALOG INPUT WIRING N1-M5
DCSG-BCC4-106	0	ANALOG INPUT WIRING N1-M6 & M7
DCSG-BCC4-107	0	ANALOG INPUT WIRING N1-M8 & M9
DCSG-BCC4-108	0	ANALOG OUTPUT WIRING N1-M10 & M11
DCSG-BCC4-109	0	ANALOG OUTPUT WIRING N1-M12
DCSG-BCC4-110	0	ANALOG INPUT WIRING N2-M1 & M2
DCSG-BCC4-111	0	ANALOG INPUT WIRING N2-M3 & M4
DCSG-BCC4-112	0	ANALOG INPUT WIRING N2-M5 & M6
DCSG-BCC4-113	0	ANALOG INPUT WIRING N2-M7 & M8
DCSG-BCC4-114	0	ANALOG INPUT WIRING N2-M9
DCSG-BCC4-115	0	ANALOG OUTPUT WIRING N1-M10 & M11
DCSG-BCC4-116	0	ANALOG OUTPUT WIRING N1-M12
DCSG-BCC4-117	0	ANALOG INPUT WIRING N3-M1
DCSG-BCC4-118	0	ANALOG INPUT WIRING N3-M2 & M3
DCSG-BCC4-119	0	ANALOG INPUT WIRING N3-M4 & M5
DCSG-BCC4-120	0	ANALOG OUTPUT WIRING N3-M6
DCSG-BCC4-121	0	ANALOG OUTPUT WIRING N3-M7 & M8
DCSG-BCC4-122	0	ANALOG INPUT WIRING N3-M8
DCSG-BCC4-123	0	DIGITAL INPUT WIRING N3-M10
DCSG-BCC4-124	0	DIGITAL OUTPUT WIRING N3-M11
DCSG-BCC4-150	0	ANALOG I/O CABINET ASSEMBLY

THERMOCOUPLE I/O CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-300	0	THERMOCOUPLE I/O CABINET ASSEMBLY
DCSG-BCC-301	0	THERMOCOUPLE INPUT WIRING N6-M1 & M2
DCSG-BCC-302	0	THERMOCOUPLE INPUT WIRING N6-M3 & M4
DCSG-BCC-303	0	THERMOCOUPLE INPUT WIRING N6-M5&6 N7-M5
DCSG-BCC-304	0	THERMOCOUPLE INPUT WIRING N6-M7 & M8
DCSG-BCC-305	0	THERMOCOUPLE INPUT WIRING N7-M1 & M2
DCSG-BCC-306	0	THERMOCOUPLE INPUT WIRING N7-M3&4 N8-M8
DCSG-BCC-307	0	THERMOCOUPLE INPUT WIRING N7-M6
DCSG-BCC-308	0	THERMOCOUPLE INPUT WIRING N7-M7 & M8
DCSG-BCC-309	0	THERMOCOUPLE INPUT WIRING N8-M1
DCSG-BCC-310	0	THERMOCOUPLE INPUT WIRING N8-M2 & M3 & M4
DCSG-BCC-311	0	THERMOCOUPLE INPUT WIRING N8-M5 & M6 & M7

SOLENOID CABINETS		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-600	0	SOLENOID VALVE CABINET ASSMEBLY
DCSG-BCC-601	0	SC-M9-1 SOLENOID CABINET WIRING
DCSG-BCC-602	0	SC-M9-2 SOLENOID CABINET WIRING
DCSG-BCC-603	0	SC-M9-3 SOLENOID CABINET WIRING
DCSG-BCC-604	0	SC-M9-4 SOLENOID CABINET WIRING
DCSG-BCC-605	0	SC-116-1 SOLENOID CABINET WIRING
DCSG-BCC-606	0	SC-116-2 SOLENOID CABINET WIRING
DCSG-BCC-607	0	SC-M8-1 SOLENOID CABINET WIRING
DCSG-BCC-608	0	SC-M8-2 SOLENOID CABINET WIRING
DCSG-BCC-609	0	SC-115-1 SOLENOID CABINET WIRING
DCSG-BCC-610	0	SC-115-2 SOLENOID CABINET WIRING
DCSG-BCC-611	0	SC-M8-3 SOLENOID CABINET WIRING
DCSG-BCC-612	0	SC-M8-4 SOLENOID CABINET WIRING

HEAT TRACING CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-400	0	HEAT TRACING CABINET ASSEMBLY
DCSG-BCC-401	0	HEATERS 01 - 06 WIRING
DCSG-BCC-402	0	HEATERS 07 - 12 WIRING
DCSG-BCC-403	0	HEATERS 13 - 18 WIRING
DCSG-BCC-404	0	HEATER CONTROL WIRING
DCSG-BCC-405	0	HEAT CONTROLLERS Comm WIRING

PRODUCED WATER PUMPS CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-700	0	PRODUCED WATER PUMPS CABINET ASSEMBLY
DCSG-BCC-701	0	PRODUCED WATER PUMPS WIRING
DCSG-BCC-702	0	WATER PUMPS EXTERNAL CABLE WIRING

MCC # 1 CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-800	0	MCC # 1 CABINET LAYOUT
DCSG-BCC-801	0	H-1103 CO2 COMPRESSOR OUTLET HEATER
DCSG-BCC-802	0	PG-1101A/B CO2 BULK TANK VAPOURIZER
DCSG-BCC-803	0	H-2609 QUENCH INJECTION HEATER
DCSG-BCC-804	0	H-2607 SCRUBBER INJECTION HEATER
DCSG-BCC-805	0	H-2605 REACTOR INJECTION HEATER
DCSG-BCC-806	0	H-3202 SCRUBBER VESSEL HEATER
DCSG-BCC-807	0	H-4305 REACTOR WATER WALL HEATER



VSD CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-500	0	VSD CABINET ASSMEBLY
DCSG-BCC-501	0	M2302 HP SLURRY FEED PUMP
DCSG-BCC-502	0	M4304 HP WATER WALL RECIRC PUMP
DCSG-BCC-503	0	M2601 LP WATER RECYCLE PUMP
DCSG-BCC-504	0	M2610 HP WATER RECYCLE PUMP
DCSG-BCC-505	0	M2403 LIQUID FUEL PUMP
DCSG-BCC-506	0	M4402 COOLING WATER RECYCLE PUMP
DCSG-BCC-507	0	M2603 BUFFER SOLUTION FEED PUMP
DCSG-BCC-508	0	M4504 GLYCOL RECIRCULATION PUMP
DCSG-BCC-509	0	M2403 LIQUID FUEL PUMP
DCSG-BCC-510	0	M2403 LIQUID FUEL PUMP
DCSG-BCC-511	0	M2403 LIQUID FUEL PUMP
DCSG-BCC-512	0	M2403 LIQUID FUEL PUMP

MCC # 2 CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-850	0	MCC # 2 CABINET LAYOUT
DCSG-BCC-851	0	COMPRESSOR ELECTRICAL WIRING
DCSG-BCC-852	0	M-1102 CO2 COMPRESSOR
DCSG-BCC-853	0	M-1203 O2 COMPRESSOR
DCSG-BCC-854	0	M-1302 N2 COMPRESSOR
DCSG-BCC-855	0	M-1401 NG COMPRESSOR

DIGITAL I/O CABINET		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-200	0	DIGITAL I/O CABINET ASSEMBLY
DCSG-BCC-201	0	DIGITAL INPUT WIRING N4-M1
DCSG-BCC-202	0	DIGITAL INPUT WIRING N4-M2
DCSG-BCC-203	0	DIGITAL INPUT WIRING N4-M3
DCSG-BCC-204	0	DIGITAL INPUT WIRING N4-M4
DCSG-BCC-205	0	DIGITAL OUTPUT WIRING N4-M5
DCSG-BCC-206	0	DIGITAL OUTPUT WIRING N4-M6
DCSG-BCC-207	0	DIGITAL OUTPUT WIRING N4-M7
DCSG-BCC-208	0	DIGITAL OUTPUT WIRING N4-M8
DCSG-BCC-209	0	DIGITAL OUTPUT WIRING N5-M1
DCSG-BCC-210	0	DIGITAL OUTPUT WIRING N5-M2
DCSG-BCC-211	0	DIGITAL OUTPUT WIRING N5-M3
DCSG-BCC-212	0	DIGITAL OUTPUT WIRING N5-M4

BMS, FLARE, WEIGH SYSTEM, PW/POW BUILDING		
DRAWING NUMBER	REV	DESCRIPTION
DCSG-BCC-901	0	BMS CABINET WIRING
DCSG-BCC-903	0	FLARE CABINET WIRING
DCSG-BCC-905	0	WET SLURRY WEIGH SYSTEM
DCSG-BCC-920	0	PW_POW TANKS BUILDING
DCSG-BCC-921	0	PW_POW TANKS MXER MOTORS
DCSG-BCC-922	0	PW_POW TANKS 120V EQUIPMENT

REV	DESCRIPTION	DATE (Y/M/D)	DRWN	CKD	APPD
1	ISSUE FOR TENDER	2017/03/24	RCM		
0	ISSUE FOR CLIENT REVIEW	2017/03/03	RCM		
No	REVISION DESCRIPTION	DATE (Y/M/D)	DRWN	CKD	APPD

 excellence by design www.miriton.com	DESIGNED R. McNAIR	PROJECT NRCAN CANMET DCSG/HIPROX
	DRAWN R. McNAIR	
CLIENT  Natural Resources Canada CANMET Energy Technology Center	CHECKED	TITLE ELECTRICAL DCSG-HIPROX ELECTRICAL DRAWING LIST
	APPROVED	DATE 2016/11/11
SCALE NONE	USER E	PROJECT DCSG
	BUILDING BCC4	DRAWING 001
	REV. 1	

REFERENCE DRAWINGS

REVISION REGISTER