

Appendix F

Cable Schedule

CABLE NAME	FROM	TO	COND #	GAUGE	TYPE	SHIELD	BOND COND.	BOND GUAGE	GROUND GAUGE	TYPE 2	VOLTAGE INSULATION	CONDUIT	LENGTH (m)	NOTES
CA-U7050-3	EDP-U7050	MCC-U7101	2C	14	TECK90		1C	14			600V		18	GROUND FAULT TRIP
CA-U7050-5	EDP-U7050	MCC-U7301	2C	14	TECK90		1C	14			600V		15	GROUND FAULT TRIP
CA-U7050-4	EDP-U7050	MCC-U7401	2C	14	TECK90		1C	14			600V		10	GROUND FAULT TRIP
CA-U7050-2	EDP-U7050	MCC-U7201	2C	14	TECK90		1C	14			600V		10	GROUND FAULT TRIP
C-U6001-3	DS-U6001	MCC-U7301 (VFD)	2C	12	TECK90		1C	14			600V		33	AUXILIARY BREAKER STATUS
C-U6002-3	DS-U6002	MCC-U7401 (VFD)	2C	12	TECK90		1C	14			600V		63	AUXILIARY BREAKER STATUS
C-U1000-1	PANEL A (EXISTING)	CP-U1000 (UPS)	2C	6	TECK90		1C	8			1000V		43	SYSTEM CONTROL CENTRE - CABLE HAS BEEN DE-RATED BY 50%
C-U1000-2	PANEL A (EXISTING)	CP-U1000	2C	10	TECK90		1C	12			600V		43	
CA-U7050-6	EDP-U7050	MCC-U7101	1PR	18	ACIC	Yes					600V		18	GROUND FAULT SUPPLIER TO CONFIRM
CA-U7050-7	EDP-U7050	MCC-U7301	4C	18	OLFLEX	Yes					600V		15	GROUND FAULT SUPPLIER TO CONFIRM
CA-U7050-8	EDP-U7050	MCC-U7401	4C	18	OLFLEX	Yes					600V		10	GROUND FAULT SUPPLIER TO CONFIRM
CA-U7050-9	EDP-U7050	MCC-U7201	1PR	18	ACIC	Yes					600V		10	GROUND FAULT SUPPLIER TO CONFIRM
C-U11013	PANEL A (EXISTING)	LT-U11013	2C	12	TECK90		1C	14			600V		48	
C-U12013	PANEL A (EXISTING)	LT-U12013	2C	12	TECK90		1C	14			600V		48	
C-U13013	PANEL A (EXISTING)	LT-U13013	2C	12	TECK90		1C	14			600V		41	
C-U10011	CP-U1000	AE-U10011	2C	12	TECK90		1C	14			600V			CONTRACTOR TO FIELD VERIFY LENGTH.
C-U11012	CP-U1000	LIT-U11012	2C	12	TECK90		1C	14			600V		25	
C-U12012	CP-U1000	LIT-U12012	2C	12	TECK90		1C	14			600V		23	
C-U042	PANEL A (EXISTING)	PANEL C (EXISTING)	2C	3	TECK90		1C	6				1000V	60	SAMPLNG BUILDING POWER, REPLACE EXISTING
C-U13012	CP-U1000	LIT-U13012	2C	12	TECK90		1C	14			600V		14	
C-U6001-1	MCC-U7301	DS-U6001	3C	10	VFD						1000V		33	INFLUENT CHANNEL
C-U6001-2	DS-U6001	EF-U6001	3C	10	VFD						1000V		3	INFLUENT CHANNEL
C-U10012	CP-U1000	AE-U10012	2C	12	TECK90		1C	14			600V			CONTRACTOR TO FIELD VERIFY LENGTH.
C-UVT3-1	Existing 5kV Switchgear	UVT-3	3C	2/0	HV TECK, 133%	Yes	1C	6			5kV		32	
C-LST5-1	Existing 5kV Switchgear	LST-5	3C	2/0	HV TECK, 133%	Yes	1C	6			5kV		45	
C-LST4-1	Existing 5kV Switchgear	LST-4	3C	2/0	HV TECK, 133%	Yes	1C	6			5kV		38	
C-UVT2-1	Existing 5kV Switchgear	UVT-2	3C	2/0	HV TECK, 133%	Yes	1C	6			5kV		35	
C-U11011-1	MCC-U7301	DS-U11011	3C	12	TECK90		1C	14			1000V		33	
C-U11011-2	DS-U11011	XV-U11011	3C	12	TECK90		1C	14			1000V		4	
C-U13011-1	MCC-U7301	DS-U13011	3C	12	TECK90		1C	14			1000V		23	
C-U13011-2	DS-U31011	XV-U13011	3C	12	TECK90		1C	14			1000V		4	
C-U5001-1	MCC-U7301	DS-U5001	3C	12	TECK90		1C	14			1000V		60	
C-U5001-2	DS-U5001	MSP-U5001	3C	12	TECK90		1C	14			1000V		3	
C-U5003-1	MCC-U7301	DS-U5003	3C	12	TECK90		1C	14			1000V		60	
C-U5003-2	DS-U5003	MSP-U5003	3C	12	TECK90		1C	14			1000V		3	
C-U6002-1	MCC-U7401	DS-U6002	3C	12	VFD						1000V		63	
C-U6002-2	DS-U6002	EF-6002	3C	12	VFD						1000V		4	
C-U0100-1	MCC-U7301	U-010-HF-1A (EXISTING)	3C	350 kcMIL	TECK90		1C	3			1000V		19	RE-FEED EXISTING
C-U0200-1	MCC-U7301	U-010-HF-2A (EXISTING)	3C	350 kcMIL	TECK90		1C	3			1000V		25	RE-FEED EXISTING
C-U0300-1	MCC-U7301	U-010-HF-3A (EXISTING)	3C	350 kcMIL	TECK90		1C	3			1000V		13	RE-FEED EXISTING
C-U0400-1	MCC-U7401	U-010-HF-4A (EXISTING)	3C	350 kcMIL	TECK90		1C	3			1000V		19	RE-FEED EXISTING
C-U1110-2	LCP-U1120	UVR-U1110												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U0500-1	MCC-U7401	U-010-HF-5A (EXISTING)	3C	350 kcMIL	TECK90		1C	3			1000V		13	RE-FEED EXISTING
C-U1120-2	LCP-U1120	UVR-U1120												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U7401-3	MCC-U7401	CDP-100 (EXISTING)	3C	350 kcMIL	TECK90		1C	3			1000V		20	RE-FEED EXISTING
C-U1130-2	LCP-U1130	UVR-U1130												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U5002-1	MCC-U7401	DS-U5002	3C	12	TECK90		1C	14			1000V		49	
C-U1101-2	LCP-U1101	HYDRAULIC PUMP 1												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U5002-2	DS-U5002	MSP-U5002	3C	12	TECK90		1C	14			1000V		54	
C-U1210-2	LCP-U1210	UVR-U1210												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U12011-1	MCC-U7401	DS-U12011	3C	12	TECK90		1C	14			1000V		26	
C-U1220-2	LCP-U1120	UVR-U1220												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U12011-2	DS-U12011	XV-U12011	3C	12	TECK90		1C	14			1000V		4	
C-U1230-2	LCP-U1130	UVR-U1230												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U1101-1	MCC-U701	LCP-U1101	3C	12	TECK90		1C	14			1000V		40	
C-U1201-2	LCP-U1201	HYDRAULIC PUMP 2												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U1201-1	MCC-U701	LCP-U1201	3C	12	TECK90		1C	14			1000V		38	
C-U1310-2	LCP-U1210	UVR-U1310												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-U1301-1	MCC-U702	LCP-U1301	3C	12	TECK90		1C	14			1000V		36	
C-U1320-2	LCP-U1120	UVR-U1320												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-490-P-1	MCC-UV (Existing)	U-490-P-1 Disconnect (Existing)	3C	10	TECK90		1C	12			1000V		55	REPLACE EXISTING
C-U1330-2	LCP-U1130	UVR-U1330												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER
C-490-P-2	MCC-UV (Existing)	U-490-P-2 Disconnect (Existing)	3C	10	TECK90		1C	12			1000V		55	REPLACE EXISTING
C-U1301-2	LCP-U1201	HYDRAULIC PUMP 3												VENDOR SUPPLIED CONDUCTOR TO UV DRIVER

CN-U6001	MCC-U7301 (VFD)	NSW-U9050			CAT6	Yes					Yes	25		
CN-U6002	MCC-U7401 (VFD)	NSW-U9050			CAT6	Yes					Yes	25		
CN-U7101-1	MCC-U7101 (Power Meter)	NSW-U9050			CAT6	Yes					Yes	24		
CN-U7201-1	MCC-U7201 (Power Meter)	NSW-U9050			CAT6	Yes					Yes	24		
CN-U7301-1	MCC-U7301 (Power Meter)	NSW-U9050			CAT6	Yes					Yes	25		
CN-U7401-1	MCC-U7401 (Power Meter)	NSW-U9050			CAT6	Yes					Yes	25		
CN-U7050-1A	EDP-U7050 (Bender Relay)	NSW-U9050			CAT6	Yes					Yes	28		
CN-U7050-1B	EDP-U7050 (Bender Relay)	NSW-U9050			CAT6	Yes					Yes	28		
CNP-U9050-1	NSW-U9050	NSW-U9110 (Existing)			CAT6								Patch	
CNP-U9050-2	NSW-U9050	NSW-U9210 (Existing)			CAT6								Patch	
C-U6003-1	PANEL A (EXISTING)	JB-U6003	2C	8	RW90		1	10		RW90	600V	YES	55	JUNCTION BOX FOR HS-U6003, PANEL A, CCT #21
C-U11014-1	CDP-100 SEC 2	DS-U11014	3C	12	TECK90		1C	14			1000V			
C-U11014-2	DS-U11014	XV-U11014	3C	12	TECK90		1C	14			1000V			
C-U12014-1	CDP-100 SEC 2	DS-U12014	3C	12	TECK90		1C	14			1000V			
C-U12014-2	DS-U12014	XV-U12014	3C	12	TECK90		1C	14			1000V			
C-U13014-1	CDP-100 SEC 2	DS-U13014	3C	12	TECK90		1C	14			1000V			
C-U13014-2	DS-U13014	XV-U13014	3C	12	TECK90		1C	14			1000V			
C-U5050-1	MCC-U7401	DS-U5050	3C	12	TECK90		1C	14			1000V			
CA-U1101	CP-U1000	LCP-U1101	1PR	22	RS-485	YES					300V		28	ARMoured
CA-U1110	LCP-U1101	LCP-U1110	1PR	22	RS-485	YES					300V		6	ARMoured
CA-U1120	LCP-U1110	LCP-U1120	1PR	22	RS-485	YES					300V		8	ARMoured
CA-U1130	LCP-U1120	LCP-U1130	1PR	22	RS-485	YES					300V		8	ARMoured
CA-U1201	CP-U1000	LCP-U1201	1PR	22	RS-485	YES					300V		40	ARMoured
CA-U1210	LCP-U1201	LCP-U1210	1PR	22	RS-485	YES					300V		6	ARMoured
CA-U1220	LCP-U1210	LCP-U1220	1PR	22	RS-485	YES					300V		8	ARMoured
CA-U1230	LCP-U1220	LCP-U1230	1PR	22	RS-485	YES					300V		8	ARMoured
CA-U1301	CP-U1000	LCP-U1301	1PR	22	RS-485	YES					300V		40	ARMoured
CA-U1310	LCP-U1301	LCP-U1310	1PR	22	RS-485	YES					300V		6	ARMoured
CA-U1320	LCP-U1310	LCP-U1320	1PR	22	RS-485	YES					300V		8	ARMoured
CA-U1330	LCP-U1320	LCP-U1330	1PR	22	RS-485	YES					300V		8	ARMoured
CA-U11013-4	LT-U11013	LSL-U11013												VENDOR SUPPLIED CONDUCTOR . CONTRACTOR TO FIELD VERIFY LENGTH.
CA-U11013-1	LT-U11013	LCP-U1110	2C	16	ACIC						300V		16	CONTRACTOR TO FIELD VERIFY LENGTH
CA-U11013-2	LT-U11013	LCP-U1120	2C	16	ACIC						300V		20	CONTRACTOR TO FIELD VERIFY LENGTH
CA-U11013-3	LT-U11013	LCP-U1130	2C	16	ACIC						300V		25	CONTRACTOR TO FIELD VERIFY LENGTH
CA-U12013-4	LT-U12013	LSL-U12013												VENDOR SUPPLIED CONDUCTOR . CONTRACTOR TO FIELD VERIFY LENGTH.
CA-U12013-1	LT-U12013	LCP-U1210	2C	16	ACIC						300V		11	
CA-U12013-2	LT-U12013	LCP-U1220	2C	16	ACIC						300V		19	
CA-U12013-3	LT-U12013	LCP-U1320	2C	16	ACIC						300V		24	
CA-U13013-4	LT-U13013	LSL-U13013												VENDOR SUPPLIED CONDUCTOR . CONTRACTOR TO FIELD VERIFY LENGTH.
CA-U13013-1	LT-U13013	LCP-U1310	2C	16	ACIC						300V		11	
CA-U13013-2	LT-U13013	LCP-U1320	2C	16	ACIC						300V		19	
CA-U13013-3	LT-U13013	LCP-U1330	2C	16	ACIC						300V		24	
CN-U1000-1	CP-U1000	NP-U900 - NSW-U9110			CAT6	Yes					YES	55		CONTROL NETWORK
CN-U1000-2	CP-U1000	NP-U900 - NSW-U9210			CAT6	Yes					YES	55		CONTROL NETWORK
CA-U1000-1	DCS RIO Cabinet (Existing)	CP-U1000	2PR	16	CIC	Yes					300V	YES	55	SYSTEM FLOW AO
CA-U10011	CP-U1000	AE-U10011	1PR	16	ACIC	YES					300V			CONTRACTOR TO FIELD VERIFY LENGTH.
C-U5050-2	DS-U5050	MSP-U5050	3C	12	TECK90		1C	14			1000V			
CA-U11012	CP-U1000	LIT-U11012	1PR	16	ACIC	YES					300V		25	CHANNEL 1 WATER LEVEL
C-U6010-1	MCC-U7301	DS-U6010	3C	10	TECK90		1C	12			1000V		45	
CA-U12012	CP-U1000	LIT-U12012	1PR	16	ACIC	YES					300V		23	CHANNEL 2 WATER LEVEL
CA-U11014	CP-U1000	XV-U11014	2PR	16	ACIC	Yes					300V		14	CHANNEL 1 WEIR POSITION - EFFLUENT
C-U6010-2	DS-U6010	UH-U6010	3C	10	TECK90		1C	12			1000V		4	
C-U6020-1	MCC-U7401	DS-U6020	3C	10	TECK90		1C	12			1000V		45	
CA-U12014	CP-U1000	XV-U12014	2PR	16	ACIC	Yes					300V		23	CHANNEL 2 WEIR POSITION - EFFLUENT
C-U6020-2	DS-U6020	UH-U6020	3C	10	TECK90		1C	12			1000V		4	
C-LST5-2	LST-5	MCC-U7301	4-3C	500 kcmil	TECK90	No	1C	3			1000V		25	
C-LST4-2	LST-4	MCC-U7401	4-3C	500 kcMIL	TECK90	No	1C	3			1000V		30	
CA-U13012	CP-U1000	LIT-U13012	1PR	16	ACIC	YES					300V		14	CHANNEL 3 WATER LEVEL
CA-U13014	CP-U1000	XV-U13014	2PR	16	ACIC	Yes					300V		25	CHANNEL 3 WEIR POSITION - EFFLUENT
C-U1110-1	MCC-U701	LCP-U1110	4C	2/0	TECK90		1C	6			1000V		43	
C-U1120-1	MCC-U701	LCP-U1120	4C	2/0	TECK90		1C	6			1000V		46	
C-U1130-1	MCC-U701	LCP-U1130	4C	2/0	TECK90		1C	6			1000V		54	
CA-U11011	CP-U1000	XV-U11011	8	16	ACIC						300V		35	GATE 1 CONTROL
CA-U12011	CP-U1000	XV-U12011	8	16	ACIC						300V		40	GATE 2 CONTROL
CA-U13011	CP-U1000	XV-U13011	8	16	ACIC						300V		44	GATE 3 CONTROL
C-U1210-1	MCC-U701	LCP-U1210	4C	2/0	TECK90		1C	6			1000V		34	

C-U1220-1	MCC-U701	LCP-U1220	4C	2/0	TECK90		1C	6			1000V		38	
CA-U10012	CP-U1000	AE-U10012	1PR	16	ACIC	YES					300V			CONTRACTOR TO FIELD VERIFY LENGTH.
STORAGE ROOM														
C-U6050-1	PANEL A (EXISTING)	JB-U6050	2C	8	RW90		1	10		RW90	600V	YES	53	JUNCTION BOX FOR HS-U6050
PANEL B-37	PANEL A (EXISTING)	RECEPTACLE OUTLET BOX	2C	8	RW90		1	10		RW90	600V	YES	50	JUNCTION BOX FOR RECEPTACLES
PANEL B-36	PANEL B (EXISTING)	LIGHT CIRCUITS	2C	10	RW90		1	12		RW90	600V	YES	48	PANEL B, CCT #36
C-U7050	PANEL A (EXISTING)	EDP-U7050	2C	12	RW90		1	14		RW90	600V	Yes	15	
C-U6003-2	JB-U6003	HS-U6003	2C	12	RW90		1	14		RW90	600V	YES	2	
C-U6003-3	HS-U6003	EF-U6003	2C	12	RW90		1	14		RW90	600V	YES	1	
C-U6050-2	JB-U6050	HS-U6050	2C	12	RW90		1	14		RW90	600V	YES	4	
PANEL B-35	PANEL A (EXISTING)	EMERGENCY LIGHT CIRCUIT	2C	12	RW90		1	14		RW90	600V	YES	48	
CA-U6501	TT-U6501	DCS RIO Cabinet (Existing)	1PR	16	CIC	Yes					300V	YES	53	ROOM TEMPERATURE MONITORING
CA-U5001-1	U-U5001 (FSH-U5001)	DCS RIO Cabinet (Existing)	2C	14	RW90		1	14		RW90	600V	YES	50	FLOW STATUS MONITORING
C-U1230-1	MCC-U701	LCP-U1230	4C	2/0	TECK90		1C	6			1000V		41	
C-U1310-1	MCC-U702	LCP-U1310	4C	2/0	TECK90		1C	6			1000V		35	
CA-U5050-1	OD-U5050	DCS RIO Cabinet (Existing)	8C	16	CIC						300V	YES	50	DOOR OPEN/CLOSED STATUS
C-U1320-1	MCC-U702	LCP-U1320	4C	2/0	TECK90		1C	6			1000V		31	
C-U1330-1	MCC-U702	LCP-U1330	4C	2/0	TECK90		1C	6			1000V		31	
C-UVT3-2	UVT-3	MCC-U7101	5-4C	500 kcmil	TECK90	No	1C	3			1000V		25	
C-UVT2-2	UVT-2	MCC-U7201	5-4C	500 kcMIL	TECK90	No	1C	3			1000V		25	

1. This cable schedule is a general guideline and does not include every cable required for the construction of the facilities. The Contractor is responsible for including all cabling for a complete and working installation.
2. The Contractor shall perform cable length take-offs from the drawings / from actual site, any cable lengths indicated herein are approximate only and shall not be construed as accurate.
3. The Contractor is responsible for completing and modifying this cable list (in excel format) with all cables that are installed. The Contractor is responsible for accurately entering / correcting the cable lengths of all cables in this cable list, and submitting this list as part of the as their as-built submittal.
4. Non-FT4 rated cables will be run in conduit.