

Exhibit 4
Supplier Document Requirements List
Agreement Number: CD0502-001

EXHIBIT 4

SUPPLIER DOCUMENT REQUIREMENTS LIST

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REVISION LIST

Revision						Remarks
N°	By	Chec	Appr.	Appr.	Date	
03	MH	SS/LC	KM	MM	07-Oct-2013	Re-issued for Acceptance
02	MH	SS/LC	KM	MM	19-Sep-2013	Re-issued for Acceptance
01	MH	SS/LC	KM	MM	27-Jun-2013	Re-issued for Acceptance
00	MH	SS/LC	KM	MM	19-June-2013	Issued for Acceptance

Note:

This SDRL shall be read in conjunction with the Appendices A1 to A7 of the document LCP-SN-CD-4000-EL-DC-0001-01, "Substation Engineering and Design Requirements".

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SUPPLIER DOCUMENT REQUIREMENTS TABLE												
SDRL Code	Type of Document	Provide with Proposal	Submit Prior to Start of Fabrication / Construction	After Shipment	With Shipment	Minimum Documents approved Coded 1 prior to Inspection Release	As Built	Final Documentation Location (R01 / R02 / R05/ R09)	Final File Format	Submission Requirements Date Required - Weeks After Receipt of Order (ARO)	Submission Requirements Monthly	Notes
A. GENERAL												
A01	Supplier Document Register (SDR)		1E+1P			1E+1P			PE/NE	2		Update and submit as requested. Exhibit 4
A02	Control Schedule	1E+1P	1E+1P						PE/NE			Exhibit 3
A03	Monthly Risk Reports		1E+1P						PE		Note	Monthly progress report to be submitted in 1E+1P; Exhibit 3
A04	Risk Management Plan	1E+1P	1E+1P						PE	2		Exhibit 3, Section 9
A06	Monthly Progress Reports		1E+1P						PE		Note	Monthly progress report to be submitted in 1E+1P; Exhibit 3
A07	Project Execution Plan	1E+1P	1E+1P						PE	2		
A08	Permits		1E+1P		1E+1P	1E+1P			PE	2		Exhibit 6
A11	Logistics and Transportation Strategy	1E+1P	1E+1P			1E+1P			PE	2		
A13	Expediting Release Authorization				1E+2P	1E+1P			PE	Note		2 weeks prior to shipment
A28	Health and Safety Plan	1E+1P	1E+1P			1E+1P			PE	2		Exhibit 5
A35	Contract Specific Environmental Protection Plan (C-SEPP)	1E+1P	1E+1P			1E+1P			PE	2		Exhibit 6 & 11
A39	Survey Report		1E+1P			1E+1P			PE			Update as required
A40	Monthly Environmental Performance Report								PE		X	Exhibit 6, Appendix C
A41	Health and Safety Training Records and Certificates	1E+1P	1E+1P						PE	2		Exhibit 5
A42	Schedule Development and Control Plan	1E+1P	1E+1P			1E+1P			PE			Exhibit 3
A43	Provisional Packing List				1E+2P	1E+1P			PE	Note		2 weeks prior to shipment
A44	Control Schedule Baseline Document	1E+1P	1E+1P			1E+1P			PE			Exhibit 3
A45	Permitting Schedule	1E+1P	1E+1P						PE/NE			Exhibit 6
A99	Miscellaneous General Documents		Note						PE			To be done twice: before starting and after completion of Detailed Engineering
B. ARRANGEMENT DRAWINGS												
B01	General Arrangements and Layouts		1E+1P				1E+2P	R01	PE/NE			DL1503
B02	Elevation/Profile Drawings		1E+1P				1E+2P	R01	PE/NE			DL1503
B03	Cross Section Drawings		1E+1P				1E+2P	R01	PE/NE			DL1503
B04	Arrangement and Sub Assembly Drawings		1E+1P				1E+2P	R01	PE/NE			DL1526
B05	Loading Drawings		1E+1P				1E+2P	R01	PE/NE			DL1407, DL1408, DL1507
B06	Cable and Tray Routing Drawings, Layout and Design		1E+1P				1E+2P	R01	PE/NE			DL1320, DL1504
B99	Miscellaneous Arrangement Drawings		1E+1P				1E+2P	R01	PE/NE			As Required Design Deliverables
C. DESIGN & OPERATIONAL DRAWINGS												
C03	HVAC Schematic and Flow Diagrams		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1316
C04	Logic Diagrams		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1617
C05	System Schematic Diagrams		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1603
C06	Sequential and Control Function Charts		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1617
C07	Functional Description or Process Control Narratives		1E+1P				1E+2P	R01	PE/NE			DL1617
C99	Miscellaneous Operational Drawings		1E+1P				1E+2P	R01	PE/NE			As Required Design Deliverables
D. DETAIL DRAWINGS												
D03	Equipment Details											See D07
D04	Fabrication, Installation and Shop Drawings		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1113, DL1114, DL1115, DL1315, DL1319



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SUPPLIER DOCUMENT REQUIREMENTS TABLE												
SDRL Code	Type of Document	Provide with Proposal	Submit Prior to Start of Fabrication / Construction	After Shipment	With Shipment	Minimum Documents approved Coded 1 prior to Inspection Release	As Built	Final Documentation Location (R01 / R02 / R05/ R99)	Final File Format	Submission Requirements Date Required - Weeks After Receipt of Order (ARO)	Submission Requirements Monthly	Notes
D06	Foundation Drawings		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1103 to DL1110, DL1308, DL1309
D07	Equipment Drawings		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1314, DL1526
D08	Shipping Drawings				1E+1P	1E+1P	1E+2P	R01	PE/NE			DL1526
D99	Miscellaneous Detail Drawings		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1101, DL1102, DL1116, DL1111, DL1112, DL1117, DL1118, DL1119, DL1120, DL1121, DL1122, DL1301, DL1302, DL1303, DL1304, DL1305, DL1306, DL1307, DL1310, DL1311, DL1312, DL1313, DL1317, DL1318, DL1320, DL1321, DL1502, DL1503, DL1504, DL1505, DL1506, DL1507, DL1508, DL1509, DL1510, DL1511, DL1512, DL1513, DL1514, DL1515, DL1516, DL1517, DL1518, DL1519, DL1520, DL1521, DL1522, DL1523, DL1524, DL1525, DL1532, DL1602, DL1606, DL1611, DL1613, DL1615
E. ELECTRICAL/INSTRUMENTATION & INTERCONNECTIONS												
E01	Interconnection Block Diagrams		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1610
E02	Wiring Diagrams/Schematics		1E+1P		1E+1P	1E+1P	1E+2P	R01	PE/NE			DL1609
E03	Single Line Diagrams		1E+1P		1E+1P	1E+1P	1E+2P	R01	PE/NE			DL1501, DL1601
E04	Control System Network Diagram		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1603
E05	Panel and Annunciator Layout Drawings		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1604
E06	Panel Details Diagrams		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1607, DL1608
E08	Block Diagrams		1E+1P			1E+1P	1E+2P	R01	PE/NE			If Required
E09	Cable Specifications		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1421
E99	Miscellaneous Electrical Instrumentation & Interconnection Documents		1E+1P			1E+1P	1E+2P	R01	PE/NE			As Required Design Deliverables
F. DATASHEETS												
F01	Equipment Data Sheet		1E+1P	1E+1P		1E+1P	1E+2P	R01	PE			Technical Data Schedule(TDS) & As Required
F04	WHMIS Material Safety Data Sheet (MSDS)			1E+1P		1E+1P		R01	PE	Note		DL1528 - 4 weeks prior to construction. As described in the procurement documents and on SDRL or considered necessary by Vendor/Supplier/ Contractor.
F05	Mechanical Properties of Materials		1E+1P			1E+1P		R01	PE			If Required
F07	Shipping Bills of Material				1E+1P		1E+2P	R01	PE	Note		Packing list - 4 weeks prior to shipment
F99	Miscellaneous Data Sheets		Note			1E+1P		R01	PE			As required, DL1618
G. SCHEDULES/LISTS												
G01	Bill of Materials/Equipment List		1E+1P		1E+1P	1E+1P	1E+2P	R01	PE/NE			DL1527, DL1605
G03	Cable Schedule		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1610, DL1614 DL1529
G05	Preventative Maintenance Schedule		1E+1P			1E+1P	1E+2P	R01	PE			DL1701, DL1702
G07	Alarms and Trip Set Point List		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1612, DL1616
G09	Input/Output List		1E+1P			1E+1P	1E+2P	R01	PE/NE			DL1612, DL1616
G10	Equipment Identification and Tagging					1E+1P	1E+2P	R01	PE			DL1530
G99	Miscellaneous Schedule/List Documents		Note					R01	PE			As required
H. CALCULATIONS												
H01	Architectural Calculations		1E+1P			1E+1P		R99-1	PE			As Required
H02	Foundation Support Calculations		1E+1P			1E+1P		R99-1	PE			DL1103 to DL1110, DL1308, DL1309

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H03	Structural Calculations		1E+1P			1E+1P		R99-1	PE			DL1310
H10	Fire Protection Calculations		1E+1P			1E+1P		R99-1	PE			DL 1318
H12	Mechanical Calculation - Misc.		1E+1P			1E+1P		R99-1	PE			DL1316, DL1317, DL1318
H34	Structure Stability Calculation		1E+1P			1E+1P		R99-1	PE			DL1113, DL1114, DL1115, DL1310
H36	Concrete Mix Calculation		1E+1P			1E+1P		R99-1	PE			As Required
H40	AC Station Service Load Calculation		1E+1P			1E+1P		R99-1	PE			DL1415
H41	DC Station Service Load Calculation		1E+1P			1E+1P		R99-1	PE			DL1416
H42	Primary Grounding Calculation		1E+1P			1E+1P		R99-1	PE			DL1403
H51	Relay Setting Calculation		1E+1P			1E+1P		R99-1	PE			DL1616
H52	Sag and Tension Calculation		1E+1P			1E+1P		R99-1	PE			DL1408
H54	Design Load Cases		1E+1P			1E+1P		R99-1	PE			DL1407, DL1408, DL1411, DL1412
H65	Current Transformers Design Calculations		1E+1P			1E+1P		R99-1	PE			DL1616
H99	Miscellaneous Calculations Documents		Note			1E+1P		R99-1	PE			DL1402, DL1404, DL1405, DL1406, DL1409, DL1410, DL1413, DL1412, DL1414, DL1417, DL1418, DL1419, DL1420, DL1421, DL1422, DL1423
J.	PERFORMANCE DATA											
J02	Current and Potential (CT/VT) Transformer Curves		1E+1P			1E+1P	1E+2P	R99-1	PE			DL1701
J06	Performance Guarantee	1E+1P	1E+1P	1E+1P		1E+1P	1E+2P	R99-1	PE			As Required
J10	Soil Gradation Analyses		1E+1P			1E+1P		R99-1	PE			DL1401
J12	List of Environmental Emission and Effluent		1E+1P			1E+1P	1E+2P	R99-1	PE			As Required, Exhibit 6, 11
J99	Miscellaneous Performance Data Documents		Note				1E+2P	R99-1	PE			As Required
K.	PROCEDURES											
K07	Factory and Site Test Procedures (FAT/SAT)		1E+1P			1E+1P		R99-1	PE	Note		4 weeks prior to FAT/SAT
K10	Manufacturing/Fabrication Procedure		1E+1P			1E+1P		R99-1	PE			As Required
K11	Cable Wiring Procedure		1E+1P			1E+1P		R99-1	PE			DL1235
K12	Commissioning Procedures		Note			1E+1P		R99-1	PE			DL1251, DL1255
K16	Instruction for Transportation, Storage, Warehousing and Long Term Storage		1E+1P		1E+1P	1E+1P		R99-1	PE	Note		DL1701 - 3 weeks prior to shipment
K22	Routine Test Procedure		1E+1P			1E+1P		R99-1	PE			DL1231
K23	Sample Test Procedure		1E+1P			1E+1P		R99-1	PE			DL1233
K24	Construction Method Statements and Procedures		1E+1P		1E+1P	1E+1P		R99-1	PE			DL1252, DL1253
K99-1	Miscellaneous Procedures Documents				1E+1P	1E+1P		R99-1	PE			DL1201, DL1202, DL1203, DL1204, DL1232, DL1234, DL1237, DL1238, DL1254, DL1255 - DL1272
K99-2	Preservation Procedures Documents				1E+1P	1E+1P		R99-2	PE			DL1236
L.	MAINTENANCE & SPARES											
L02	Recommended Commissioning and Start-up Spares	1E+1P			1E+1P			R01	PE			DL1531
L03	Recommended 12 and 24 Months Operation Spares	1E+1P			1E+1P			R01	PE			As Required
L04	Recommended Critical Spares (Insurance)	1E+1P			1E+1P			R01	PE			As Required
L05	Special Tools List	1E+1P			1E+1P			R01	PE			DL1531
L99	Miscellaneous Maintenance & Spares Documents							R01	PE			As Required
M.	TEST & INSPECTION REPORTS											

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M01	Material Test Certificates		1E+1P		1E+1P	1E+1P		R99-1	PE			As received and prior to inspection release
M02	Instrument/Electrical Test Report		1E+1P			1E+1P		R99-1	PE	Note		3 weeks prior to FAT & Before Shipment.
M09	Fire Testing Certificates				1E+1P			R99-1	PE			As Required
M10	Inspection Release Certificate				1E+1P			R99-1	PE	Note		Prior to Shipment
M16	Painting/Coating Test Report				1E+1P			R99-1	PE	Note		3 weeks prior to FAT & Before Shipment
M17	Steel Manufacturing Reports				1E+1P			R99-1	PE	Note		3 weeks prior to FAT & Before Shipment
M19	Factory and Site Test Report (FAT/SAT)				1E+1P			R99-1	PE	Note		3 weeks prior to Shipment for FAT and 3 weeks after Testing for SAT
M20	Commissioning Report				1E+1P			R99-1	PE			
M24	Manufacturer's Type Test List and Report	1E+1P			1E+1P			R99-1	PE			Only Type Test Certificates are required for Major Equipments with BID Proposal
M25	Reports and Certificates for Routine Tests				1E+1P			R99-1	PE			
M26	Reports for Sample Tests				1E+1P			R99-1	PE			
M27	Mechanical Completion Report				1E+1P			R99-1	PE			
M28	Certificate of Origin				1E+1P			R99-1	PE			
M29	Preservation Records				1E+1P			R99-1	PE			
M99	Miscellaneous Test & Inspection Reports				1E+1P			R99-1	PE			
Q	QUALITY ASSURANCE / QUALITY CONTROL											
Q01	Quality Assurance System Registration Certificate	1E							PE			
Q02	Quality Assurance System Manual	1E							PE			
Q03	Quality Plan	1E						R99-1	PE			
Q04	Inspection and Test Plan(s) (Factory and Site Works)		1E+1P		1E+1P			R99-1	PE/NE			Sample to be provided with Bid
Q05	Certificates of Conformity (Factory and Site Works)				1E+1P			R99-1	PE	Note		Not more than 4 days after inspection
Q07	Internal/External Audit Schedule	1E	1E+1P									Audit schedule to be provided for all activities
Q08	Management Review Minutes of Meeting	1E										
Q09	Third Party Surveillance Report	1E						R99-1				
Q10	NCR Register and associated close out reports							R99-1	PE		x	Engineer shall be notified immediately of any NCR related to the supply of the specified material or services
Q11	Quality Management Certificate for Manufacturer							R99-1	PE			
Q12	Declaration of Installation and Inspection Completion											See M27, Exhibit 7
Q13	Authorized Deviations							R99-1	PE	Note		As required
Q99	Miscellaneous Quality Documents							R99-1				On completion of the Scope of Work
R	MANUALS											
R01	Installation, Commissioning, Operating and Maintenance Manual			1E+1P	1E+1P		1E+2P	R01	PE			DL1701, DL1702
R05	Dispatch Dossier				1E+1P			R05	PE			
R99-1	Miscellaneous Manuals (EPC Record Book)							R99-1	PE			As required
R99-2	Miscellaneous Manuals (Preservation Manuals)							R99-2	PE			As required

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SDRL Definitions					
A	A - General				
A01	Supplier Document Register (SDR)	Supplier Document Register (SDR) – documents list identifying individual document deliverables. This register will capture deliverable requirements as agreed by Contractor and Company. Contractor is responsible to create and approve this document as a revision controlled document.			
A02	Control Schedule	As per Exhibit 3 Coordination Procedure			
A03	Monthly Risk Reports	Provides a summary of activities carried out by a Contractor aimed at addressing selected Risks; The monthly Risk Reports, inclusive of the Risk Register, are part of the subject matter of the Monthly Risk Reviews. The requirements for the Monthly Risk Report and Risk Register are set forth in sections 2.3 and 2.4 of the LCP Risk Management Requirements for Contractors and Suppliers (Document # LCP-SN-CD-0000-RI-PR-0001-01).			
A04	Risk Management Plan	Provides a description of the Risk Management Process, organizational context and tools adopted by a Contractor/Supplier. The contractor shall prepare the Risk Management Plan using as guidance section 2.2 of the LCP Risk Management Requirements for Contractors and Suppliers (Document # LCP-SN-CD-0000-RI-PR-0001-01).			
A06	Monthly Progress Reports	As per Exhibit 3 Coordination Procedure.			
A07	Project Execution Plan	As Required.			
A08	Permits	Provide copies of all permit documentation, as described in Exhibit 6 (Environmental and Regulatory Compliance Requirements)			
A11	Logistics and Transportation Strategy	Provide a logistics and transportation strategy for the Work which shall include proposed transportation modes and preferred carriers or freight forwarders. The following documents shall be taken into consideration when developing the strategy: (SLI document # GP-5500-F-01-E) Documentation, Packaging, Marking, Shipping and Instructions and (Document # MFA-SN-CD-6140-TL-SP-0003-01) Documentation, Packaging, Marking, Shipping and Instructions Specific to Transmission Line Components.			
A13	Expediting Release Authorization	Include Shipping Bill of Materials, Quality Surveillance Release, and Shipping Release Notice.			
A28	Health and Safety Plan	As per Exhibit 5 Health and Safety Requirements.			
A35	Contract Specific Environmental Protection Plan (C-SEPP)	The Contractor shall prepare its C-SEPP using as guidance the <i>Contract-Specific Environmental Protection Plan template</i> (Provided in Exhibit 11). The Contractor's C-SEPP shall be based on the following: relevant provisions of the <i>Project-Wide Environmental Protection Plan</i> (Provided in Exhibit 11); <i>Environmental and Regulatory Compliance Requirements</i> (Exhibit 6); the <i>Waste Management Plan</i> (Included in Exhibit 11).			
A39	Survey Report	Geotechnical Investigation Report, Measurement of Soil Resistivity(Wenner Method).			
A40	Monthly Environmental Performance Report	A Monthly Environmental Performance Report shall be submitted by the Contractor, in accordance with provisions of Exhibit 6 (Environmental and Regulatory Compliance Requirements). This report shall include a Monthly Fuel Consumption Report in the format prescribed in Exhibit 6, Appendix C.			
A41	Health and Safety Training Records and Certificates	Training records and certificates for employees including, but not limited, to Confined Spaces, Fall Protection, Operator Competencies, Trade Certifications, etc.			
A42	Schedule Development and Control Plan	As per Exhibit 3 Coordination Procedure.			
A43	Provisional Packing List	A preliminary Packing List listing the items planned to be shipped against the Purchase Order. In addition to the item numbers; tag numbers; planned quantities to be shipped the P/L should also indicate the approximate weights and dimensions.			
A44	Control Schedule Baseline Document	As per Exhibit 3 Coordination Procedure.			
A45	Permitting Schedule	Provide a detail activity for each permit as per Exhibit 6 - Environmental and Regulatory Compliance Requirements			

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A99	Miscellaneous General Documents	Contractor has to perform the following before starting and after completion of Detailed Engineering (Contractor shall submit a detailed report against every review): * Constructability Reviews * Maintainability and Operability Reviews * Compatibility Reviews * Substation Performance Analysis and Reviews (to be performed ONLY at detail engineering stage) * Substation Reliability Analysis and Reviews (to be performed at ONLY detail engineering stage)			
B	B - ARRANGEMENT DRAWINGS				
B01	General Arrangements and Layouts	Drawings showing the general arrangement or relative locations of components or construction elements, including overall horizontal dimensions and/or scale bars, noted relative elevations and/or topographic contours, geographic orientations, etc. Drawings are normally in horizontal (planar) view, with the location and orientation of elevation views and/or cross-section views shown.			
B02	Elevation/Profile Drawings	Drawings showing views of components or construction elements in a vertical plane, i.e. in elevation, for the purpose of showing the vertical arrangement of the components or construction elements, usually with horizontal and vertical dimensions and/or scale bars.			
B03	Cross Section Drawings	Drawings showing views of components or construction elements in horizontal or vertical planes which are cut through the assembly of components or construction elements.			
B04	Arrangement and Sub Assembly Drawings	Plans and Sections with nomenclature.			
B05	Loading Drawings	Foundation drawings, loading requirements and anchor bolts.			
B06	Cable Tray Routing Drawings, Layout and Design	Plans , elevations and sections.			
B99	Miscellaneous Arrangement Drawings	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
C	C - DESIGN & OPERATIONAL DRAWINGS				
C03	HVac Schematic and Flow Diagrams	Schematics and flow diagrams shall be provided for all heating, ventilating and air conditioning systems. Diagrams shall be drawn using standard symbols and tagging systems adopted for the project as advised by the purchaser and shall include direction of flow and location of system components.			
C04	Logic Diagrams	Process Logic shall be detailed.			
C05	System Schematic Diagrams	Supplier to provide schematics for system diagram.			
C06	Sequential and Control Function Charts	A sequential function chart (SFC) provides an overview of system behaviour. IT shall describe the start-up, shutdown and other sequential operations. A Continuous Function Chart (CFC) shall address the functions that run regardless of the active sequence. It complements the SFC and both shall be provided.			
C07	Functional Description or Process Control Narratives	This document should include a text-based detailed description of the process control. It shall include but not be limited to: descriptives, flags, requests and commands, permissives, modes of operation, description of sequences, loop narratives, start conditions, start actions, run conditions, alarms, interlocks conditions and actions, pause conditions and actions, resume conditions and actions.			
C99	Miscellaneous Design & Operational Drawings	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
D	D - DETAIL DRAWINGS				
D03	Equipment Details	Details of equipment construction, capacity, etc. to meet the Purchaser's specification.			
D04	Fabrication, Installation and Shop Drawings	Drawings to show fully dimensioned component parts of items being supplied. To include Plating Drawings and dimensional drawings for lateral tees.			
D06	Foundation Drawings	Provide all drawings associated with foundation details.			
D07	Equipment Drawings	To include Rigging / Lifting Plans / Details and or Elevations complete with all necessary dimensions. All relevant notes regarding lifting and installation requirements.			

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D08	Shipping Drawings	Provide all drawings associated with shipping activities.			
D99	Miscellaneous Detail Drawings	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
E	E – ELECTRICAL/INSTRUMENTATION & INTERCONNECTIONS				
E01	Interconnection Block Diagrams	An Interconnection Block Diagram shall be provided when Equipment Supplier requires the field contractor to do the field installation or interconnection of devices or panels. The panels/junction boxes/devices Tag number shall be identified as well as any cable included by the supplier.			
E02	Wiring Diagrams/Schematics	Wiring Diagrams shall be produced for each panel, cabinet, rack, console and item of equipment designed and constructed by the Supplier or Sub-Supplier specifically for this order. The diagram shall be fully detailed showing the details for each cable core and wire and the connections down to the level of interfaces to proprietary items within the unit. All units and connections shall be uniquely identified. All voltage levels, ratings, sizes, manufacturer, type numbers, cable and wire types, sizes, colour and ID number shall be included. All internal cables and wires shall be identified at both ends to a numbering schema agreed between the Purchaser and the Seller. Functional descriptions for each connection or signal path shall be included to enable users to fully comprehend the operation and configuration of the unit. Schematic drawings shall include cable types, cable numbers, tag numbers, termination point (plug/socket etc.), power supply sources, earthing arrangements and location of each item of equipment. The diagram shall also include any notes that may be necessary to enhance the understanding of the system's configuration and operation as well as indicating which components and connections are subject to emergency shutdown arrangements. Equipment and Cables not in the Supplier's scope shall be clearly identified. Schematic diagrams for instrument relay control and trip systems, etc., shall show the electrical arrangement of all component parts. Relays shall be shown with contacts in coil de-energized position.			
E03	Single Line Diagrams	An interconnectivity representation of all electrical elements of a system.			
E04	Control System Network Diagram	A single line diagram of the data communications system shall be provided. The drawing(s) shall show all the major control system components and how they are interconnected. Addressing information shall be provided at each drop.			
E05	Panel and Annunciator Layout Drawings	General arrangement of Panel components complete with identification tags. Include BOM unless being issued as a separate document.			
E06	Panel Detail Diagram	Provide details of equipment layout, terminal blocks and wiring schedule.			
E08	Block Diagram	Provide Control System Block diagram showing major system components (complete with tag No. and description) and their interconnection.			
E09	Cable Specifications	Provide Technical data and specifications for cables connected to equipment.			
E99	Miscellaneous Electrical/Instrumentation & Interconnections Documents	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
F	F - DATASHEETS				

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F01	Equipment Data Sheet	<p>Equipment data sheets will be issued by the Purchaser as part of enquiry or purchase order. Contractor to complete.</p> <p>Also, Technical information, as detailed in notes below, of the following equipment need to be supplied:</p> <ul style="list-style-type: none"> - Circuit Breakers * - Disconnect switches * - Instrument transformers * - Surge Arresters * - Post Insulators * - Control system (metering, control, SCADA) ** - Protection system *** - MV switchgear ** - LV switchgear with ATS ** - ac and dc Distribution panels * - Batteries * - Chargers * - Lighting system ** - Fire alarm system *** <p>Notes: * Including, but not limited to: drawings (if applicable), technical data sheets, catalogues, reference list ** In addition to the above listed documents technical data sheets, catalogues of main subcomponents shall be enclosed ***In addition to the above listed documents a system description is required</p>			
F04	WHMIS Material Safety Data Sheet (MSDS)	Supplier must provide suitable and sufficient health and safety information to ensure compliance with the Hazardous Products Act of Canada and any other relevant Provincial or Local legislation.			
F05	Mechanical Properties of Materials	When requested Supplier to provide the following mechanical properties: Tensile strength, Yield Strength, Elongation at Ambient Temperature and any other information as requested.			
F07	Shipping Bills of Material	Weights and dimensions data for all materials to be shipped.			
F99	Miscellaneous Datasheets	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
G	G - SCHEDULES/LISTS				
G01	Bill of Materials / Equipment List	Bill of Materials shall list all items in the system by part number, and indicate the major features of each item, e.g. make, model, type, supply voltages, output characteristics, materials, set pressure, design pressure, range, etc. It shall show the total quantity of each item supplied.			
G03	Cable Schedule	The following information must be included in the cable schedule as a minimum: Cable Tag, a brief technical description of all cables, source, destination. Also a field showing scope of supply (i.e. by supplier, or by others) and scope of installation and termination for each cable (i.e. by supplier or by field contractor). The schedule shall be updated monthly or when significant changes occur. This document will not be approved to final status until the dispatch of all equipment to site after which any changes will be made directly onto the purchasers Master Cable Schedule. The schedule shall be submitted in hard copy and MS Excel format. Samples can be provided upon request.			
G05	Preventative Maintenance Schedule	Section shall include schedule of preventative maintenance tasks/maintenance frequencies, where relevant routine test procedures and inspection instructions are to be provided.			
G07	Alarms and Trip Set Point List	Provide list in excel format and hard copy. Sample can be provided upon request.			
G09	Input/Output List	I/O list shall include the corresponding device tag, I/O type and complete hardware and software addresses of each I/O point in the system. Required in Excel format and hard copy. Project sample can be provided upon request.			
G10	Equipment Identification and Tagging				
G99	Miscellaneous Schedule/List Documents	<p>Contractor shall provide for all systems and equipments:</p> <ul style="list-style-type: none"> -Factory Inspections and test Plans before FAT -Mechanical Inspections and test Plans during Installation -Commissioning Static Checks Plan during Installation <p>As described in the procurement documents and on SDRL or considered necessary by Contractor.</p>			
H	H - CALCULATIONS				



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H01	Architectural Calculations	Calculations shall be provided for the following, as a minimum : 1. Noise Design Calculations shall be provided for wall, partition and liner to ensure that noise transfer between areas is below purchasers stated requirements. Noise design calculations shall also be provided for proprietary equipment for areas such as Galleys and Laboratories (any equipment with any moving or mechanical parts). 2. Thermal Calculations shall determine heat emitted to the atmosphere for project loading and ambient temperatures specified by the purchaser. 3. Calculations shall also be provided for Structural elements such as Mini modules, blast walls, Firewalls etc. Please refer to Structural calculations for requirements.			
H02	Foundation Support Calculations	Calculations shall be provided for the following, as a minimum: • Identification of all applicable loading conditions • Bearing capacity requirements • Bearing capacity of the foundation for the applicable loading condition • Anchorage requirements with loads and anchor details.			
H03	Structural Calculations	Calculations shall be provided for the following, as a minimum: • Identification of all applicable loading conditions • Loading, bending moment and shear force diagrams for all members, bracings and connections • Member selection details • Weld load and size requirements • Bolt load, size and number requirements			
H10	Fire Protection System Calculations	Calculations to detail pipe friction losses, nozzle sizes, and discharge rates in accordance with NFPA requirements. i.e.: sprinklers as primary protection.			
H12	Mechanical Calculations - Misc.	All other mechanical calculation requirements specified in the contract documents and technical specifications, not already outlined in Attached 5a and 5b of this document, shall be provided.			
H34	Structure Stability Calculation	Calculations shall be provided for the following, as a minimum: • Identification of all applicable loading conditions • Stability, including overturning and sliding • Location of resultant with respect to mid third of base • Location and size of drainage system components • Stability of excavated surfaces (soil and rock) • Stability of constructed fill slopes • Stability of natural in-situ materials and/or slopes affected by construction or during operation.			
H36	Concrete Mix Calculation	Calculations shall be provided for the following, as a minimum: • Mix designs for slush grout and dental concrete for foundation preparation • Mix designs for conventional concrete for each structure, including primary and secondary concrete • Mix design for roller compacted concrete for each structure			
H40	AC Station Service Load Calculation	Full report and calculation			
H41	DC Station Service Load Calculation	Full report and calculation			
H42	Primary Grounding Calculation	Full report. Calculations and drawings.			
H51	Relay Setting Calculation	Full Report			
H52	Sag and Tension Calculation	All wires. All load cases. Stringing sag charts. Calculations for all load cases.			
H54	Design Load Cases	All calculations shall include zoning. Including 3 zones for dc, and 1 zone for ac.			
H65	Current Transformer Design Calculations	As per technical specification including knee point calculations			

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H99	Miscellaneous Calculations Documents	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
J	J - PERFORMANCE DATA				
J02	Current and Potential (CT/VT) Transformer Curves	Graph showing current transformer magnetization characteristics.			
J06	Performance Guarantee	<p>As per technical specification and as follows:</p> <p>Performance guarantees shall be provided for all supplied equipment, ensuring environmental sustainability and safety, with specified performance requirements. Guarantee information to be provided shall include, but is not limited to, the following:</p> <ul style="list-style-type: none"> • Expected life of equipment/components • Terms of warranty • Rated capacity and efficiency • Minimum hours of operation without failure/defects (e.g. oil leakage, surface cracking, insulation failure, wear rate, etc.) • Acceptable Operation limits (e.g. Operating temperature range, coolant and/or lubricant requirements, vibration limits, operating voltage, etc.) 			
J10	Soil Graduation Analyses	Standard particle size distribution in table and graph formats.			
J12	List of Environmental Emission and Effluent	As per Environmental Requirements.			
J99	Miscellaneous Performance Data Documents	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
K	K – PROCEDURES				
K07	Factory and Site Test Procedures (FAT/SAT)	<ul style="list-style-type: none"> • Description of system test procedures for control systems, safety, trip/shutdown systems, electrical and telecommunication systems with typical test record documents. • Factory test procedures are to be produced for use in tests to be conducted at the Supplier's or Sub-Supplier's works for each system. There shall also be an integrated test procedure to test all interfaces and connectivity, i.e. an overall test with all systems fully assembled and interconnected in the factory (including central equipment and a representative number of field equipment's). These tests shall demonstrate complete compliance to the Project Specification within the Purchase Order or Sub-Contract. <p>Contractor shall provide all specifications, procedures and forms required for Mechanical completion and Site Commissioning of all Systems Equipments.</p>			
K10	Manufacturing/Fabrication Procedure	Procedure explaining methods used to produce the required item(s) stated in the purchase order as detailed by the specification and/or data sheets.			
K11	Cable Wiring Procedure	Supplier to supply his standard for approval.			
K12	Commissioning Procedures	Commissioning Procedures shall comprise a Mechanical Completion Procedure to verify the integrity of installation works completed by others and Commissioning Procedures, all conducted by the Supplier. Mechanical Completion Procedures shall be produced which verify the mechanical completion for cables, cable termination's and equipment and systems physically installed by others. The procedure shall also certify the integrity of Supplier installed cables and termination's prior to the application of power. Commissioning Procedures shall be produced in accordance with the Project Specification within the Purchase Order or Sub-Contract.			
K16	Instructions for Transportation, Storage, Warehousing and Long term Storage	Provide Full Instructions for transportation, storage, preservation, warehousing and long term storage.			
K22	Routine Test Procedure	Provide a full list of routine tests, which will be carried out during manufacture, as well as the actual procedures and the test equipment that will be used.			
K23	Sample Test Procedure	Provide a full list of sample tests, which will be carried out during manufacture, as well as the actual procedures and the test equipment that will be used.			
K24	Construction Method Statements and Procedures	Includes all necessary construction method statements and procedures. Site installation and erection procedures shall also be included.			
K99-1	Miscellaneous Procedures Documents	as described in the procurement documents and on SDRL or considered necessary by Contractor.			

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K99-2	Preservation Procedures Documents	Preservation procedures for all equipment and systems. Also, as described in the procurement documents and on SDRL or considered necessary by Contractor.			
L	L - MAINTENANCE & SPARES				
L02	Recommended Commissioning and Start-up Spares	List shall indicate parts recommended by Supplier, and be defined by reference to cross-sectional drawings and relevant parts list. Against each entry, Manufacturer, Manufacturers part no, price and delivery shall be indicated.			
L03	Recommended 12 and 24 Months Operation Spares	List shall indicate parts recommended by Supplier and be defined by reference to cross-sectional drawings and relevant parts list. Recommendation shall assume that recommended commissioning spares will be purchased with main equipment. Against each entry, Manufacturer, Manufacturers part no, number of parts in operation, price and delivery shall be indicated.			
L04	Recommended Critical Spares (Insurance)	Essential Spares that have a long delivery time and/or require testing with the main equipment. Against each entry, Manufacturer, Manufacturers part no, number of parts in operation, price and delivery shall be indicated.			
L05	Special Tools List	List shall indicate those tools necessary for removing equipment from transport at site, plus those necessary for installation and maintenance equipment. Against each entry, a brief description shall be indicated plus, where necessary for clarity, a drawing provided.			
L99	Miscellaneous Maintenance & Spares Documents	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
M	M - TEST & INSPECTION REPORTS				
M01	Material Test Certificates	Material Test Certification. The level of certification, traceability and marking of materials will be defined within the Purchase order referenced specifications, drawings and data sheets.			
M02	Instrument/Electrical Test Report	Heat run, short circuit, etc. test reports			
M09	Fire Testing Certificates	Certification issued by an approved testing establishment or recognized authority for hydrocarbon fires, jet or pool, for the durations stated in the Purchase Order.			
M10	Inspection Release Certificate	Fully endorsed certificate issued by Purchaser's inspector.			
M16	Painting/Coating Test Report	As required by the Project Painting and Coating Standards.			
M17	Steel Manufacturing Reports	Residual magnetism report, heat treatment report, mechanical test reports, full traceability cross-reference control sheet.			
M19	Factory and Site Test Report (FAT/SAT)	Full test report for each test as per K07.			
M20	Commissioning Report	Full test report for each test as per K12.			
M24	Manufacturer's Type Test List and Report	Proof of design and type tests previously performed on the material shall be submitted for approval. The type test certificates and reports for the following equipment are required to be submitted : <ul style="list-style-type: none"> · Circuit Breakers · Disconnect Switches · Instrument Transformers · Surge Arresters · MV Switchgear · Post Insulators 			
M25	Reports and Certificates for Routine Tests	Provide Routine test reports with certificates.			
M26	Reports for Sample Tests	Provide sample test reports			
M27	Mechanical Completion Report	Provide as per K12.			
M28	Certificate of Origin	A document required from the Exporter (or its agent) and certified by an issuing body, that the goods in a particular export shipment have been wholly produced, manufactured or processed in a particular country. The Certificate of Origin must be signed by the Exporter and, in many countries, validated by a Chamber of Commerce.			
M29	Preservation Records	Preservation records that shows compliance to storage requirements			

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M99	Miscellaneous Test & Inspection Reports	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
Q	Q – QUALITY				
Q01	Quality Assurance System Registration Certificate	Certificate provided by an authorized registrar confirming conformance to a quality management system.			
Q02	Quality Assurance System Manual	Document specifying the quality management system of an organization.			
Q03	Quality Plan	Document specifying which procedures and associated resources shall be applied by whom and when to a specific project, product, process or contract.			
Q04	Inspection and Test Plan(s) (Factory and Site works)	Document defining the inspection and test activities to be carried out during the realization of a product.			
Q05	Certificates of Conformity (Factory and Site Works)	Certificates authorized by the supplied or third party verification body attesting that the product meets requirements.			
Q07	Internal/External Audit Schedule	Documented audit schedule for both internal and external (supplier and third party) audits.			
Q08	Management Review of Meeting Minutes	Minutes of meeting of the most recent management review of the quality management system.			
Q09	Third Party Surveillance Report	Report by an authorized third party on the audit of the ISO 9001:2008 quality management system.			
Q10	NCR Register and associated close out reports	Register of Nonconformities reported and associated close out reports.			
Q11	Quality Management Certificate for Manufacturer	Supplier shall submit their manufacturer's ISO 9001:2008 or internationally recognized Quality Management Certificate or quality manual.			
Q12	Declaration of Installation and Inspection Completion	As per Quality requirements.			
Q13	Authorized Deviations	Site queries, concession requests etc. as approved by Purchaser.			
Q99	Miscellaneous Quality Documents	As described in the procurement documents and on SDRL or considered necessary by Contractor.			
R	R – MANUALS				
R01	Installation, Commissioning, Operating and Maintenance Manual	<p>1. Installation Section shall include all erection/assembly drawings, instructions as to the use of special tools provided, tolerances allowed on setting dimensions, handling and unpacking instructions. Also includes quantities of preservatives and fluids required for shipment.</p> <p>2. Commissioning Section shall include list of spare parts, special tools and utilities required, pre-commissioning checks to be performed, sequenced procedure for dynamic commissioning and start-up and fault finding guidelines. Copies of all relevant drawings shall be included.</p> <p>3. Operating Section shall include description of equipment, operating procedures for start-up, steady state, shutdown, emergency and fault conditions, operating parameters, function of protective devices and controls, copies of all relevant cause and effect charts and block diagrams, and fault finding guidelines.</p> <p>4. Maintenance Section shall include instructions for maintenance disassembly, repair/overhaul and reassemble, schedule of preventative maintenance/maintenance frequencies.</p>			
R05	Dispatch Dossier	Dispatch Dossier shall mean all those documents required, as a minimum to accompany goods released to site from Contractors/Suppliers and Fabricators. Procured goods shall not be dispatched without Dispatch Dossier.			
R99-1	Miscellaneous Manuals	Engineering, Procurement and Construction Record Book (EPCRB)			
R99-2	Miscellaneous Manuals	Site preservation manuals. Also, as described in the procurement documents and on SDRL or considered necessary by Contractor.			



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Legend

DEFINITIONS / LEGEND

Column 1

- SDRL Code

Column 2

Type of Document / SDRL Title

Column 3

Provide with proposal (X)= Populated with "X" indicating if the document is required for the initial bidding process.

1E = One Electronic Copy (*)

Column 4 / 5 / 6 / 7 Submit Prior to start of fabrication / Construction : After Shipment ; With Shipment : and or Minimum documents approved code 1 prior to Inspection release

Column 8 As built populated with "X" where required.

Column 9 Final Document location code (R01 / R02 / R05 / R99) = Populated with R01, R02, R05 or R99 as required indicating if the document is required in a manual (s).

Column 10 Final file format = Editable native files as required : SLI to define file format : Example DWG, PDF, Word, Excel...

PE = .pdf format

NE= Native Electronic Format

Column 11 / 12

Submission Requirements Include: a number refers to the number of weeks the Supplier / Contractor has to submit the document after receipt of order

ARO = After Receipt of Order

Monthly = Submissions required on a monthly basis

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Supplier Name										Supplier Document Register (SDR) - A01 ac SUBSTATIONS																				
Contact Person - Phone and Email address																														
Project Name										Equipment/Material																				
Lower Churchill Project										Package / Requisition Title																				
Project No. 525573										Package Number: CD0592																				
										Rev. No. 02																				
										Nalcor Energy Document Number																				
Package Engineering Approval:																														
Approval:																														
Date:																														
Submit Prior to Start of Fabrication / Construction																														
After Shipment																														
With Shipment																														
Minimum Documents Approval Cuts 1 Prior to Inspection Release																														
As-Built																														
Final Document Location (R01 / R02 / R09)																														
Final File Format																														
Submission Requirements																														
Date Required - Weeks After Receipt of Order (ARC)																														
Submission Requirements Monthly																														
SDRL Code	Supplier Doc. #	Supplier Reference	Document Title	Submit Prior to Start of Fabrication / Construction	After Shipment	With Shipment	Minimum Documents Approval Cuts 1 Prior to Inspection Release	As-Built	Final Document Location (R01 / R02 / R09)	Final File Format	Submission Requirements	Date Required - Weeks After Receipt of Order (ARC)	Submission Requirements Monthly	Date Required	Supplier Forecast Submitted Date	Supplier Actual Submitted Date	Project Code	Original Code	Doc. Type Code	Physical Component	Discipline	SDRL Code	Sequential #	Sheet #	Rev. No.	Sub-Supplier Name (if applicable)	Final Delivery Date	Review Class	YN Engineer Stamp	Remarks
														dd-mm-YYYY	dd-mm-YYYY	dd-mm-YYYY														
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