

Wabush Service Upgrade – Wabush Airport, NL

EC373-230778/A

AMENDMENT # 3

THE FOLLOWING AMENDMENT TO THE TENDER DOCUMENTS IS EFFECTIVE IMMEDIATELY.
THE AMENDMENT SHALL FORM A PART OF THE CONTRACT DOCUMENTS.

ADDENDUM NO. 2

NOTE:

Pictures of the site are attached with this addendum.

Geotechnical reports are attached with this addendum.

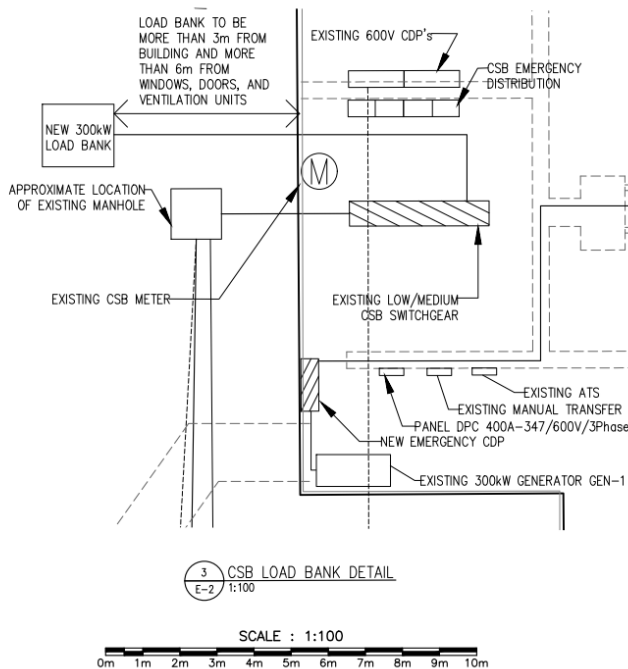
Questions & Answers:

Question # 1: As per drawing E-7, we must provide transformer T-5 (15KVA 600-120/208V)
Please confirm where will be located this transformer (new switchgear or in ATB electrical room)?

Answer # 1: Transformer and panelboard to be located inside switchgear. Optional separate 15kV-120V control power transformer (CPT) section for switchgear control voltage for heaters, lights, control, etc.
CPT sizing to be determined by the manufacturer.

Question # 2: Can you please provide localization of existing GEN-1 and provide wires size required between the existing Generator and new 600A 347/600V CDP panel?

Answer # 2: New conductors to be 2x4C #250 MCM + G, Cu Teck 90, 1000V between GEN-1 and new CDP. See revised detail below:



Question # 3: Can you please provide the name and contact information of the company which providing services on the existing generator GEN-1?

Answer # 3: Cat Toromont

Question # 4: Can you please provide Manufacturer and part number of existing ATS?
As per specification the New Automatic transfer switch (ATS) to match existing automatic transfer switch.

Answer # 4: Existing ATS is Caterpillar CBTSCT Series, LEXX0526-03-400A, 600V, 3P. Information provided by manufacturer during design phase to be confirmed on site.

Question # 5: As per drawing E-7 we must provide new communications and controls wires between the new ATS and generator control panel.
Can you please provided quantities and type of wire to be provided?
Also confirm if those wires will be run via existing concrete encased duct bank between CSB Elec room and ATB Elec room?

Answer # 5: Low voltage wiring as per manufacturer recommendations. Refer to specifications and include proposed wiring into shop drawings.
Wires from different sources to be run in separate conduit. Spare conduits might be available after removal/demolition of existing infrastructure.
Existing concrete encased duct bank contains 3 spare conduits to accommodate new cable runs.

Question # 6: Where will be located the Nema 1 remote control panel for manual operations for the load bank?

Answer # 6: Remote control panel to be located inside generator room or as per chosen manufacturer recommendations.

Question # 7: Please confirm if conduit between new load bank and building will be direct buried or concrete encased?
Also, can you please provide wires size between the load bank and CSB panel?

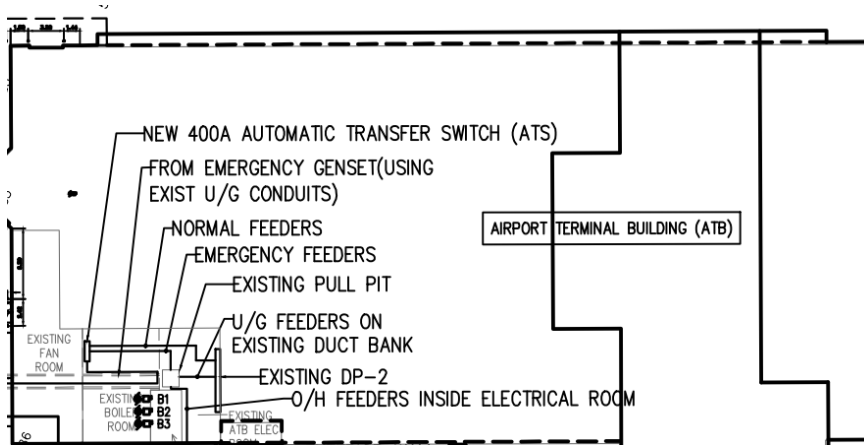
Answer # 7: New conduit to be concrete encased. Revise breaker connected to load bank from 300 A to 400 A.
3C-500MCM+G Teck90 Cu in duct bank as per Diagram D-11/Detail 1/Table D-11A. New CDP main breaker to be revised to new 400A-3P.

Question # 8: As per drawing E-7 we must add the following breaker inside ATB Normal Switchboard:
New matching 100%, 65KA 1200AF/AT, 600VAC, 3Ph Breaker
New 400A, 600V 3P breaker
Can you please provide the following information:
Manufacturer and part number of existing ATB normal switchboard

Answer # 8: Eaton PRL3000 switchboard, 1200A, 35 kAIC. Confirm on site during walk-through visit.

Question # 9: As per drawing E-7 we must provide 3 new feeders from ATB normal switchboard (B1, B2, B3; 3#4/0 awg +G cu teck 90 1000V in 63mmC)
Can you please provide end point of those feeder (B1, B2 and B3)?

Answer # 9: Boilers located in ATB boiler room. See revised detail below:



Question # 10: As per drawing E-7 we must add the following breaker inside normal system unit substation 100E in CSB:
New 300A, 600V 3P breaker

Can you please provide the following information:
Manufacturer and part number of existing normal system unit substation 100E in CSB Elec room

Answer # 10: New breaker has been revised to 400A-3P. Existing normal system substation is Square-D QED, 2000A, 42 kAIC, serial number 33558048-002.

Question # 11: As per drawings E-7 please confirm if other materials other than bus bar after removal of CT for utility metering will be required?

Answer # 11: Coordinate on site with utility recommendations and provide all required accessories to ensure continuous path.

Question # 12: Can you please specify the dimensions of pullpit to be provided between New Switchgear 15KV switchgear and existing manhole

Answer #12: Refer to Dwg E-3/Detail 6 for typical layout and associated specs. 6/E3 note 2 to be revised to read "TYPICAL DIMENSIONS 1820mm(DEPTH) X 3350mm(WIDTH)X 2230mm(HEIGHT)". Structural design to be provided by civil/structural engineer. Submit shop drawings for approval before placing order.

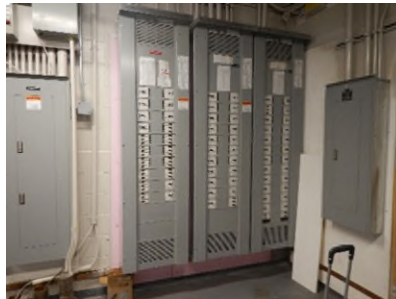
Question # 13: Is it possible to provide some pictures of CSB and ATB electrical room showing existing equipment, existing interior pull pit, existing interior wire trench form interior pull pit?

Answer # 13: Full size pictures attached with this addendum.

ATB:



ATB Switchboard Sections



ATB Panels (beside double door)



Pullpit beside single door

CSB:



Normal CSB Distribution Sections



CSB Emergency Distribution
(across from normal CSB,
transformers on either side of
distribution panel)



Pullpit beside normal CSB
distribution

Question # 14: For MV cable between new 15KV switchgear and new Transformer TR-1 and between new 15KV switchgear and main panel In CSB electrical room please confirm if it's the intent to use 15KV AL type Teck cable inside underground duct bank?
Also please confirm if 4 or 3 conductors will be required?

Answer # 14: Refer to drawing E-6. Revise to copper XLPE requiring 3 conductors to TR-1 primary side and 4 conductors to TR-1 secondary side.

Question # 15: For LV cable between new transformer and safety switch switchgear ATB electrical room please confirm if it's the intent to use Teck cable inside underground ducts bank?

Answer # 15: No, use Teck only from stub-up conduit to disconnect switch located inside ATB building

Question # 16: As per details 4/E3 and 8/E3 please confirm if duct will be 100mm diam. or 150mm diam.

Answer # 16: 150mm, refer to drawing E-3. Detail notes for 4/E3 and 8/E3 to be revised to read 150mm diameter.

Question # 17: Are you able to provide a geotechnical report?

Answer # 17: Geotechnical Reports attached.

Question # 18: About the new Customer owned 1000KVA ATB transformer TR-1 12.5kV - 347/600V 3PH 4W can you please provide answers to the following questions:
Do we have to provide cooling fan on transformer or radiator only?
Do we have to provide mineral oil or FR3?
Please confirm color of transformer (ASA 61 grey or green)?
In the section 26 12 19, the transformer requires removable radiators. Our manufacturer would like to know if you can accept radiators that are welded to the transformer, meaning that they are not removable?

Answer # 18: Radiator only, provide FR3 fluid, ASA 61 Grey colour, removeable radiators.

Question # 19: Please confirm if poles 1 and 2 will also remove by other on drawing E-1?

Answer # 19: Poles 1 and 2 to be removed by Newfoundland Hydro.

Question # 20: Please confirm if existing conduits between existing manhole and CSB medium / low voltage switchgear will be reuse for new medium voltage feeders?

Answer # 20: Add new manhole next to existing to accommodate new U/G power line. New medium voltage feeders to be installed in a new concrete encased duct bank between new added manhole and the CSB.
Note: New manhole, trench and wiring is being included to maintain continuity of services during construction.

BY SUBMISSION OF ITS TENDER, THE TENDERER CONFIRMS THAT IS HAS READ AND UNDERSTANDS THE REQUIREMENTS EXPRESSED IN ALL ADDENDA AND HAS INCLUDED ALL COSTS OF THESE REQUIREMENTS IN THE TOTAL TENDER AMOUNT.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.
