

**Amendment No. 010**

**Technical Question and Answer**

#	Question	Response
1	What is the distance between TP64 building to cattle barn? We would need to know the distance of the conduit/path.	Based on review of the electrical and civil site plan drawings, and in coordination with Kevin Clavet (WSP-Civil), assuming that the contractor will follow the given routing of the ductbank indicated on the drawings, and with some consideration of grade changes, the distance of the conduit/path from the PP64 building to the Cow Barn is taken off at approximately 460m. Confirmation remains the responsibility of the Contractor.
2	I am looking for more information in regards to the Ventilation systems & their control panels. The control panels are shown on my drawings E-C-2.7 to 2.11 but there is no indication of the extent of scope on our end.	The Ventilation Systems & associated control panels are to be provided by the Dairy Equipment Supplier. All indicated wiring, cabling and conduit is by the electrical and systems contractors. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b>
3	Am I supplying these cabinets, supplying power feeds to them or both power and control wiring?	Cabinets and equipment provided by the Dairy Equipment Supplier. All indicated wiring, cabling and conduit is by the electrical and systems contractors. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b>
4	The scope is not clear. Verify that it is over 25 Pairs of Cat3 outdoor Armoured copper cable that runs over to the Cow Barn and not MINIMUM of 100 pairs like DIV 27 states.	It is to be 1 - 25 pair cable Cat 6, not 100 pairs per specification 27 05 13 2.1.1 states "Minimum 100 pair from building 64 to each of Cow and Goat Barns". <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b>

5	12 Strand OM3 Multimode outdoor unarmoured fibre from PP64 to Wall Mounted Lockable Cabinet in the Cow Barn. Nothing to the Goat Barn as it is a future building?	Correct. Fibre not taken to the Goat Barn in this project as it is a future building.
6	These feeder cables will run through x2 Manholes and we are treating these as a passthrough points and not as a termination point.	Maintenance holes are pass through points and not termination points.
7	Interior cabling within the Cow Barn will be Cat6 FT6 Shielded cable ran back to the Lockable Cabinet in the IT Room of the Cow Barn?	Interior cabling within Cow Barn with Cat6 FT6 Shielded cable to run to Rack first, then from Rack to Lockable Cabinet. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b>
8	It shows 2 cabinets in the IT Room. It's not very clear on those. On the Data/Voice riser is shows an IT Rack as well as a lockable cabinet. It shows that the internal building cabling will go back to the IT Rack . Will the Fibre will go to the Lockable Cabinet and the 2 will link each other? Can you provide spec for the cabinets?	Yes, the fibre goes to the lockable cabinet, with remaining cabling going to the Rack. The Rack and Cabinet are to be linked together. Cabinets are by contractor per spec section 26 27 16. <b>Per response to previous inquiry (#7) : Interior cabling within Cow Barn with Cat6 FT6 Shielded cable to run to Rack first, then from Rack to Lockable Cabinet. Clarification of Specification is provided in Addendum 06 to Set 2.</b>
9	In Addendum #4 it states that the "25 pair feeder will terminate to BIX". Does that mean the internal VOICE cabling will go back to BIX or will it go to a patch panel in the designated rack with a 25 pair link to the cabinet from the BIX?	Voice cabling will go to a patch panel in the designated Rack with a 25 pair link to the cabinet from the BIX. Clarification will be provided in the next addendum.

10	Does the Internal cable have to have a 25 year certification for cabling?	No a 25 year certification for cabling is not specifically required beyond what reference standards indicate.			
11	Is division 26 responsible for supply & installation of ventilation panels show on electrical drawings 2.7 to 2.11 or just line voltage supply to them? Scope responsibility is not clear.	Per to response to previous Inquiry (#2 and #3) <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b> The Ventilation Systems & associated control panels are to be provided by the Dairy Equipment Supplier. All indicated wiring, cabling and conduit is by the electrical and systems contractors. Cabinets and equipment provided by the Dairy Equipment Supplier. All indicated wiring, cabling and conduit is by the electrical and systems contractors.			
12	Section 26 36 21 – Natural Gas Fired Generator - Art 2.4.9 and Art 2.4.10  Specifically related to specification section 26 32 21, and Single line E-C-2.6: 1. Can you please confirm circuit breakers and sizes? The single line states 1 200A breaker, and the spec states 1 x 600A Mainline breaker and 1 x 600A Load Bank Breaker( 600A is very oversized and would not comply to CSA) 2. Is a camlock connection box or load bank docking station required? Also not shown in the SLD.	1. The generator is to be provided with a 200A-3P mainline breaker per the single line drawing (not 1200A or 600A). The loadbank breaker is to be a 250A-3P to allow for full loadbank testing of the generator. 2. A camlock connection box is required, not a load bank docking station. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b>			
13	Clarification on response to Addendum 4 sought:  <table border="1" data-bbox="170 1143 1268 1344"> <tr> <td data-bbox="170 1143 338 1344">Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System</td> <td data-bbox="338 1143 894 1344">Is this system part of a larger network?, what brand?  ..... .1 Communication between nodes in networked system to be supervised, DCLA. Should communications fail between any 2 nodes, other nodes on loop to continue to communicate with each other and programmed functions on communicating nodes to continue operating.</td> <td data-bbox="894 1143 1268 1344">There is no network system. Contractor to provide wiring and connections at building PP64 and a system capable of wireless communications. Reference specification Set 02 Section 28 31 00_01 Art 2.3.1.8.1 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02</td> </tr> </table>	Specification Set 02 Section 28 31 00_01 - Multiplex Fire Alarm System	Is this system part of a larger network?, what brand?  ..... .1 Communication between nodes in networked system to be supervised, DCLA. Should communications fail between any 2 nodes, other nodes on loop to continue to communicate with each other and programmed functions on communicating nodes to continue operating.	There is no network system. Contractor to provide wiring and connections at building PP64 and a system capable of wireless communications. Reference specification Set 02 Section 28 31 00_01 Art 2.3.1.8.1 Spec section updated to reflect changes and clarifications per Consultant Addendum 02 to Set 02	Joyceville Institution has a Cerberus Pyrotronix (Siemens) fire alarm system. Yes, this system is part of the larger network. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b>
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	<p>What kind of wires do they need at building PP64? Will they be connecting this Barn FA system to another building FA system through dry contacts?</p>	<p>Refer to specification for fire alarm wiring. No, they will not be connecting this Barn FA system to another building FA system through dry contacts. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b></p>
	<p>Clarification on the wireless requirements: Do they just wish to have a wireless GSM monitoring panel to monitor the fire alarm system or do they require the panel itself to connect wirelessly to devices or other panels?</p>	<p>Clarification of Specification is provided in Addendum 06 to Set 2. Yes, the intent is to have a wireless GSM monitoring panel to monitor the fire alarm system. <b>Clarification of Specification is provided in Addendum 06 to Set 2.</b></p>

**All other terms and conditions of the Invitation-to-Tender remain unchanged.**