

ADDENDUM #4

Tender No. ENG 25-04 – Uganda Pump Station Upgrades

Please note the following Clarifications, Questions and Answers for the above noted Tender is to be known as Addendum #4. Bidders are to reference receipt of Addendum #4 in their submission.

Clarifications

Hatch Requirements

- Contractor is to confirm dimensions of existing hatch openings in the field and submit shop drawings prior to fabrication. Structural drawings provide details but not fixed sizes.
- For bidding purposes, bidders may obtain approximate dimensions by scaling the drawings. These are suitable for tendering but not for construction.
- No record drawings are available confirming prior modifications to hatch openings.
- Waterproofing requirements are not required. The Township has not encountered flooding or persistent ponded rainwater at this location.
- Raised hatches are required for this application.

Supply Constraints

- The previously referenced Flygt Safe-Hatch is discontinued and no longer available.
- Suitable products by USF, MSU or EJCO are acceptable, subject to shop drawing approval
- A USF SRR-I 36" × 36" or similar model will be acceptable, subject to shop drawing review. The design calls for combining two rough openings, which may result in a new opening of approximately 1.52 m × 0.99 m. Contractor to confirm exact measurements prior to construction.

Bidder Questions and Township Answers:

Question #1: The Active Earth Soil Assessment Record notes "This soil is suitable for a clean fill receiver site (Residential Low Density)", but also indicates that "select results would exceed the assumed IL Source Site standards". As the Contractor is being asked to conduct additional Contaminated Soil Testing per Pay Item 1.15, please confirm that the Contractor is to assume that all soils are clean for pricing purposes and that in the event the soils are contaminated a Change Order would be issued.

Answer #1: The Contractor is to assume soils are clean for tendering purposes. Pay Item 1.15 (Contaminated Soil Testing), governed by Supplementary Specification Clause 1.6.3, covers only the cost of soil testing as a lump sum, including all labour, equipment, and analysis required to meet provincial regulations. Payment will be made upon submission of testing results approved by the Contract Administrator. If soils are found to require handling or disposal as contaminated material beyond the assumptions in the Active Earth assessment, this will be treated as a Change in the Work under MMCD and addressed through Change Order.

Question #2: The December 1st milestone date may be difficult to achieve as we are being told the pump lead time is 12–14 weeks from approved shop drawings. Does the Township have any expected timelines for Contract Award and issuing Notice to Proceed? Please confirm this milestone date and consequences (if any) for not meeting this requirement.

Answer #2: The December 1, 2025 milestone remains the contractual target for pump installation and operation on existing starters. The Township anticipates award in early September with a September 15 kickoff. If documented equipment procurement lead times prevent achieving this milestone despite timely Contractor action, extensions to Contract Time may be considered under MMCD provisions for delays beyond the Contractor's control.

Question #3: Please provide the operational control system details as indicated in Spec Note 17.2.

Answer #3: A new Control system is not required however the SCADAPack Vision 10 HMI should be replaced (Note 4 on E-003) and the VFDs integrated into the existing SCADAPack32 RTU/PLC. This can be through an IO extension cords or Fieldbus integration of the VFDs. Wet and Dry-well equipment and instrumentation will still terminate in the existing SCADAPack32 Control panel.

Question #4: Please provide equipment specifications and details for the new control panel, including the preferred PLC/HMI manufacturer.

Answer #4: The preferred manufacturer would be Schneider SCADAPack.

Question #5: Please provide detail on the control panel interface connection, including all signal types. The drawings only indicate 1 conduit which would not support a typical control system.

Answer #5: As described above, no new control system would need to be interfaced. Signal types could be Fieldbus to the VFDs and just Digital H/W to the ATS for Generator Feedback to the Control system such as Running, Fault, On Normal Power, On Emergency Power. A second conduit could be added or the conduit enlarged but a single multi-pair cable and two shielded Ethernet Cables is likely all required for the interface.

Question #6: The new VFDs and ATS will provide new monitoring points, is the existing RTU/SCADA system to remain unmodified?

Answer #6: Expansion to the existing SCADAPack with IO Extension cards can provide the additional points. As the ATS and VFD integration follow the de-commissioning of the FVNR starters (E-003 Note 4), the motor starter panel is removed from the existing kiosk creating space for an additional IO Expansion and terminal strip alongside the existing SCADAPack32.

Question #7: Please provide details on pump cable connection point and transition to conduit to new kiosk.

Answer #7: Pump connection points would remain in a JB to the left of the existing Kiosk (together with EYS seals – see Q8). When transitioning from the existing starter panel to the new kiosk, new cabling can be provided from the JB to the new Kiosk with replacement Seals.

Question #8: Is the intent for the new pumps cables to terminate in the existing kiosk termination section in new non-metallic junction boxes with new EYS seals for the conduit running to new kiosk?

Answer #8: Yes.

Question #9: Please provide details on the hazardous area classification, define the hazardous area wiring methods and provide location of explosion proof seals for pump feeders.

Answer #9: Based off NFPA 820 and the pump room being physically separated from the wet well, and wastewater pumped through closed pipes, and not a ventilated space, the dry-well pump station is classified as Class I Div 2 and associated wiring methods should be used as defined in the CEC.

Question #10: What is the scope or work for existing electrical equipment demo?

Answer #10: Fundamentally pumps are removed, disconnected and cabling removed is the main scope of existing electrical equipment demo. All other instrumentation and electrical components remain or the electrical contractor to coordinate with other disciplines if other electrical equipment is required to be removed temporarily during construction of structural supports (for example).

Question #11: Please confirm whether the new generator/ATS and VFDs are to interface only with existing process instruments (e.g., level, pressure, floats, existing control panel I/O), or if new field instruments are required as part of the generator/controls work.

Answer #11: Yes – in the majority, new generator/ATS and VFDs interface only with existing process instruments except for the new (optional) flow meter in the pump station dry-well.

Question #12: If new instruments are required, please provide:

- A list of instruments (tag numbers, service, location), required ranges/accuracy, environmental ratings, and any preferred makes/models.
- Responsibility split (supply / install / wire / calibrate / commission / programming / SCADA integration).

Answer #12:

- ProMag W400 150mm Flow Meter – 0xDn.
- If selected by the City to be supplied and installed, the contractor will have full responsibility.

Question #13: We did not find instrument data sheets or clear instrumentation specifications in the package tied to the generator option. If there are project-specific instrument specs (or MMCD addenda) that govern these devices, please direct us to the exact section/sheet.

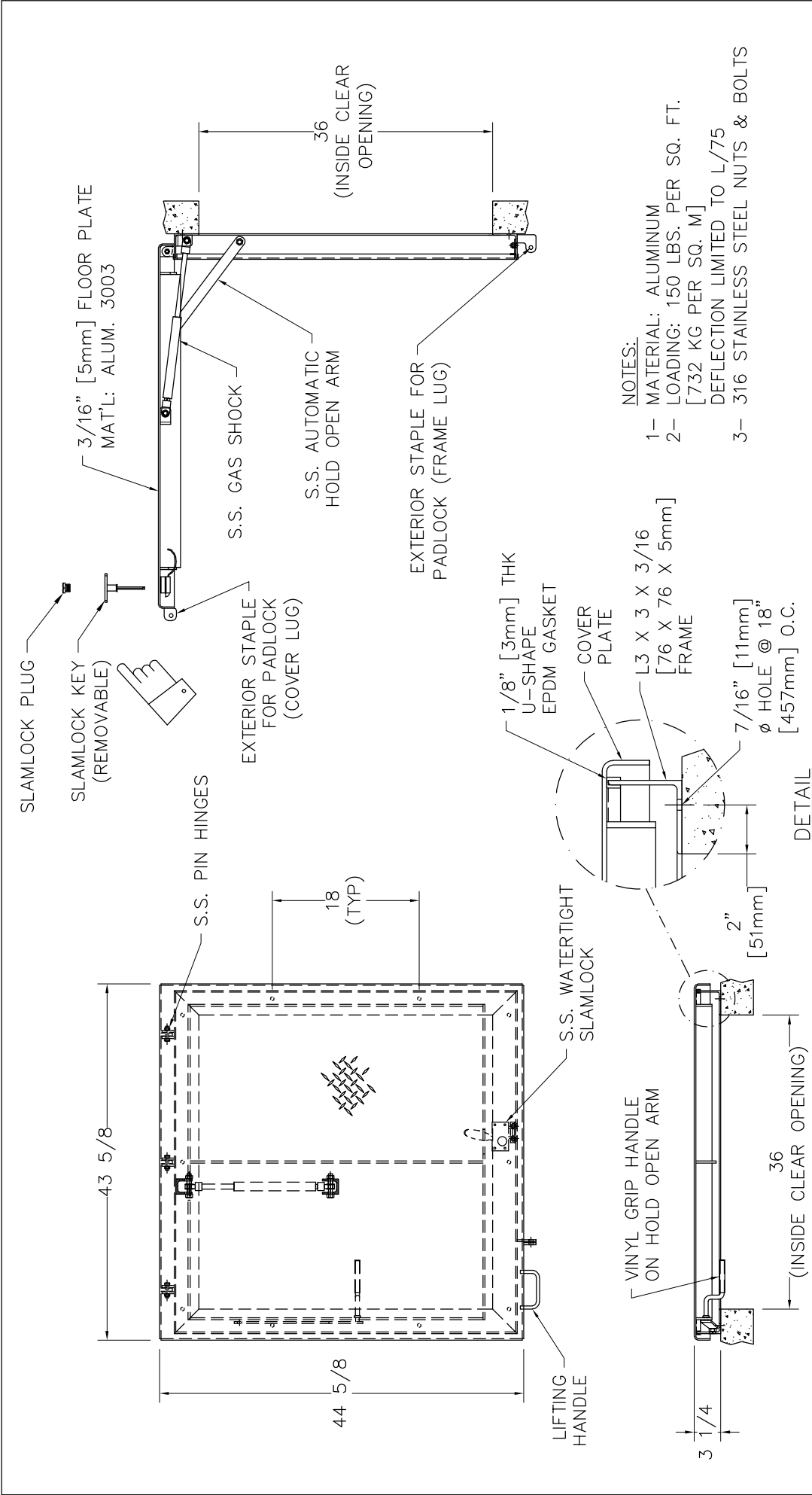
Answer #13: E-900 Section 20 should provide the basis of acceptance, inclusions, and requirements of the generator. No specific instrumentation specifications for the generator instrumentation exist.

Question #14: Please confirm the following assumptions for tendering purposes:

1. All existing process instruments, interlocks, and float switches remain in service; no new process instruments are required for generator operation.
2. Any new work under the generator option is limited to power, controls, communication cabling/conduits, ATS/VFD integration, alarms, and testing/commissioning—not new transmitters/switches in the wet/dry well.
3. SCADA/HMI updates (if any) are limited to adding generator status/alarms and VFD interfaces, with no changes to existing instrument selection.

Answer #14:

1. Good and valid assumption.
2. Correct – the only exception is the new (optional) flow meter inside the dry-well noted above.
3. Correct.



<p>U.S.F. FABRICATION INC. HIALEAH, FLORIDA</p>		<p>HATCH SRR-I 36 X 36 ALUMINUM</p>	
<p>W/S.S. GAS SHOCK, SLAMLOCK W/REMOVABLE KEY & EXTERIOR STAPLE</p>		<p>DATE: 06/21/16</p>	
<p>REV. 1</p>	<p>DATE 9/29/2017</p>	<p>M.R. BY</p>	<p>APP'D</p>
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		<p>1/16 = ± 1/32</p>	
		<p>1/32 = ± 1/64</p>	
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