ONTARIO POWER GENERATION

Records File Information:
T6

Internal Use Only

N-FORM-10393-R005*

Concession Application by Supplier

Section A (Supplier)	Supplier: Custom Control Panels	OPG PO #: 251088 Release: Revision:
	Equipment: Otek NTM-VC005, -VC006	Purchasing Agent Name: JV (SNC Lavalin Nuclear / AECON)
	Model # N/A	OPG CAT ID: 0
	Serial #: N/A	Project: HWMB West Annex building
	Name of part affected: 4-20mA Analog Output	Application #: 628411-K60712-52BX-0001
	Drawing # of part affected: N/A	Unit/Equip. #: N/A

Section B (Supplier)

Technical Deviation affects:

☐	Design	☐ Form ☐ Fit ☐ Function	☐	Performance Deviation	☒	Requirements Deviation	☐	Nonconformance
☐	Safety	☐ Conventional ☒ Nuclear	☐	Shelf life	☐	Configuration Change	☐	Specification revision required

Description of nonconformance and proposed rationale for acceptance:

During FAT testing, it was observed that the 4-20mA analog outputs on the Otek NTM meters are generating analog signals outside of the manufacturer's published specification of +/- 0.1% of full span (i.e. 4-20mA).

These analog outputs are used to transmit the measurements to the TRF control room for display on OPG's computer system.

The manufactur's specifications stipulate a display accuracy of 0.05% of span, and an analog output accuracy of 0.1% of span. A signifigant number of Otek LIA meters have errors on the analog output greater than 0.1%.

After contacting Otek, it was determined that two options exist:

1) Send all of the meters back to Otek for rework. Otek estimates that they should be able to reduce the error by about half, if they rework the meters. This rework will have a time and cost impact which will delay the shipment of these panels signifigantly, [redacted]

2) Accept the meters as-is. As per the attached email, OPG agrees that the accuracy of these meters does not pose an adverse impact on operations in the TRF control room.

The technical specifications for the Otek units, NK38-TSI-60482-10001, -10002 do not specify an output accuracy for these units.

Our supplier believes that they can adjust the zero for these outputs to reduce the error to <= +/-0.25%.

This concession is to accept the Otek Units as-is.

Requested by:	Mark Jamieson	Senior I&C Engineer, P.Eng	Date: 2017-12-14
	Print name/signature	Title	YYYY-MM-DD

Section C Jurisdictional involvement ☐ yes ☒ no

*Associated with N-PROC-MM-0016, Nuclear **Procurement Activities**

Concession Application by Supplier

(Supplier)	Reference to jurisdiction involvement:
Section D (Supplier)	This request does ☐ / does not ☒ involve a change in contract price. Estimated price decrease: $ **Note**: Show details on estimate sheet and attach hereto. Sunita Balkissoon ~~Shelron Belgrave~~ — Project Buyer — Date: 2017-12-14 Print name/signature — Title — YYYY-MM-DD
Section E (OPG Design)	OPG Design Engineering Resolution Recommendation (after stakeholder review as applicable): H.Lo: Request rejected. There are concerns with respect to the quality (and liability) of the meters. Although it is recognized that the error may still be workable in this particular application, this is a quality/non-conformance issue and should be resolved as such. The instruments do not comply with manufacturer specification. Consideration may be given to ship the panel at risk, but it should quarantined as non-conforming until the issue is resolved. Any additional work and documentation updates is to be completed with JV QA and is considered rework. ☐ Request Accepted ☒ Request Rejected Print name/signature — OPG DTL (Title) — Date: 2017-DEC -21 (YYYY-MM-DD) — O11-2 (mail location)
Section F (OPG Supervisory Design)	Design Supervisory or Delegate Verified & Approved by: Print name/signature — Title — Date: YYYY-MM-DD — mail location

Concession Application by Supplier

Instructions for use of concession application form by suppliers providing Services, Materials or Equipment to OPG specifications.

Purpose

The purpose of this Concession Application is to obtain OPG Design Engineering Authority approval of a deviation from the Technical Specification or any nonconformance with the item/component or service request.

Nonconformances affecting one or more of the following major areas: design, safety, configuration, interchangeability, performance requirements, reliability, and shelf life require a concession application.

Concession applications may cover nonconformances which are considered suitable for use:

- "As-is"
- After repair by an approved procedure
- By equivalent part/item substitution

Instructions for Completion

Section A — The Supplier shall complete all blanks as applicable and assign Application Numbers sequentially commencing from "1" under each OPG order. All applications originating with a sub-contractor shall be submitted by the supplier.

Section B — The Supplier shall give a complete description of the nonconformances and details of proposed rectification to bring the services, materials or equipment closer to drawing or specification requirements including rationale as to why it is acceptable to do so. Alternatively they may request with appropriate rationale as to why it is acceptable that the services, materials or equipment be accepted in its present condition. Should this request be made, reason shall be given as to why rectification is not possible or practical. Drawings may be referenced or sketches may be attached, if necessary, to clearly explain the condition.

Section C — It is the responsibility of the Supplier to ensure that the Regulatory Authority has been advised when a nonconformance violates prescribed Regulatory requirements. The reference required is documented or other tangible evidence that the Regulatory Authority has been involved with the proposed action identified.

Section D — The Supplier shall indicate whether the request **does** or **does not** involve a change in contract price or terms. If the Supplier is unable to give an accurate estimate of the change in contract price at the time of submitting the Request, they may indicate that this shall be provided at a prescribed later date. Approval of the concession does not constitute approval of the change in price. Price changes shall be the subject of further negotiation following appropriate technical approval, with the assigned Purchasing Agent. The Supplier shall complete the concession application for distribution as follows:

- Copy + attachments to the OPG Purchasing Agent.
- Copy + attachments retained by the Supplier

Purchasing Agent to forward concession application to appropriate Design Engineering technical resource.

Section E — The assigned OPG Design Engineering staff shall be considered the Single Point of Contact for review of the concession application and disposition as applicable to complete this section showing final resolution and sign off.

Note: This review may require the input of other additional Engineering subject matter experts and as such shall be taken into consideration as part of the overall dispositioning.

- Copy + attachments to the responsible Purchasing unit
- Copy + attachments retained by Design Engineering

Section F — Design Supervisory Approval shall treat this request as seeking appropriate Supervisory authority or delegate approval concurrence and sign off.

- Design then returns dispositioned and signed off N-FORM-10393 to appropriate purchasing agent (Supply Chain)
- Purchasing Agent issues Copy + attachments to the Supplier.
- Copy + attachments retained by Purchasing Agent in Contract File