| Form P: Proposal Information | | | |
| --- | --- | --- | --- |
| Bidder: |  | | |
| Notes:   1. The City reserves the right to clarify, investigate, and request additional information to confirm the Bidder’s claim regarding any data provided. 2. The Bid Evaluation is not based solely upon the information submitted on this form. 3. This form is made available to Bidders in both PDF and Microsoft Word format. In the event of a discrepancy between the forms, the PDF version will take precedence. 4. Complete “Bidder Response” section in full. Failure to complete or submit required information may result in disqualification of the complete Bid. 5. If insufficient space is provided, attach additional sheets with required information. | | | |
| **Item** | | **Description** | **Bidder Response** |
| **.** | | **Published Price List** |  |
| **.** | | **General** |  |
| .. | | As requested in B12, is a Published Price List provided? | Yes, a Published Price List is provided:  The price list is in Canadian Dollars.  The price list is in US Dollars.  The price list is in Euros.  The price list is applicable for the following regions: |
| .. | | Is the Published Price List comprehensive of the manufacturer’s entire electric actuator offering, including all replacement parts? | Yes  No. Provide details below: |
| .. | | Is the Published Price List consistent with the prices and discounts indicated in Form B? | Yes  No. Provide details below: |
| **.** | | **Product Lifecycle Guarantee** |  |
| **.** | | **Manufacturer Guarantee** |  |
| .. | | Active sale and production guarantee | No plans to remove the proposed product from active sale and/or production are in place.  There are plans to remove the product for active sale and/or production, but plans call for:  10 or more years of active production.  5 or more years of active production.  Less than 5 years of active production and sale.  Additional Details: |
| .. | | Product support guarantee | The product is guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for the following duration after any of the proposed products are removed from active sale:  5 or more years.  Years guaranteed:  <5 years (Not acceptable)  Additional Details: |
| **.** | | **Electric Actuator – General** | *The following information shall be applicable to all actuators proposed. Any exceptions shall be clearly indicated.* |
| **.** | | **General** |  |
| .. | | Manufacturer Name |  |
| **.** | | **Installed Base** |  |
| .. | | Installed base of the manufacturer’s electric actuator line in Manitoba (previous models may be included). | Information not available  < 100 units  100 – 999 units  1,000 – 9,999 units  > 10,000 units |
| .. | | Installed base of the manufacturer’s electric actuator line in North America (previous models may be included). | Information not available  < 1000 units  1000 – 9,999 units  10,000 – 99,999 units  100,000 – 999,999 units  > 1,000,000 units |
| .. | | Global installed base of the manufacturer’s electric actuator line (previous models may be included). | Information not available  < 1000 units  1000 – 9,999 units  10,000 – 99,999 units  100,000 – 999,999 units  > 1,000,000 units |
| .. | | Global installed base of the proposed model series. | Information not available  < 1000 units  1000 – 9,999 units  10,000 – 99,999 units  100,000 – 999,999 units  > 1,000,000 units |
| **.** | | **Power Supply** |  |
| .. | | Identify the available supply voltages available for electromechanical motor controllers. | 115V, 1Ø, 60 Hz  120V, 1Ø, 60 Hz  115/120V, 1Ø, 60 Hz (dual rated)  200V, 1Ø, 60 Hz  208V, 1Ø, 60 Hz  200/208V, 1Ø, 60 Hz (dual rated)  200V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200/208V, 3Ø, 60 Hz (dual rated)  575V, 3Ø, 60 Hz  600V, 3Ø, 60 Hz  575/600V, 3Ø, 60 Hz (dual rated) |
| .. | | Identify the available supply voltages available for solid-state motor controllers. | 115V, 1Ø, 60 Hz  120V, 1Ø, 60 Hz  115/120V, 1Ø, 60 Hz (dual rated)  200V, 1Ø, 60 Hz  208V, 1Ø, 60 Hz  200/208V, 1Ø, 60 Hz (dual rated)  200V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200/208V, 3Ø, 60 Hz (dual rated)  575V, 3Ø, 60 Hz  600V, 3Ø, 60 Hz  575/600V, 3Ø, 60 Hz (dual rated) |
| .. | | Identify the power source for the anti-condensation heater. | Integral to the actuator power supply, up to and including 575/600V.  Seperate 120 VAC power connection.  Other:  Other Details: |
| **.** | | **Actuator Sensing** |  |
| .. | | Position Sensing Technology | Absolute Position Encoder  Relative / Incremental Position Encoder  With battery backup  Without battery backup  Other:  Other Details: |
| .. | | How is torque sensed in the provided actuators? | Electromechanical sliding worm  Piezo Thrust Sensor  Hall Effect Torque Sensor  Motor voltage and current  Motor speed, voltage and temperature  Other:  Other Details: |
| .. | | Torque Setting Range: | % to 100% rated torque |
| .. | | Multiple Torque Settings: | Separate open and close torque settings  One torque setting for both open and close |
| **.** | | **Protection Functions** |  |
| .. | | Does the actuator have protection against phase loss and or incorrect phase sequence? | Yes  No  Additional Information: |
| .. | | Can the actuator trip upon exceeding a torque threshold (obstructed valve)? | Yes  No  Additional Information: |
| .. | | Does the actuator have a configurable feature to override the torque limit for unseating sticky valves? | Yes  No  Additional Information: |
| .. | | Can the actuator trip upon not measuring valve movement after a pre-determined time? (Jammed Valve) | Yes  No  Additional Information: |
| .. | | Can the actuator automatically initiate a forward / reverse cycle to free a jammed valve? | Yes  No  Additional Information: |
| .. | | Describe the motor thermal protection provided. | RTD  Qty:  Thermistor  Qty:  Other:  Type:      ­­  Qty:  Additional Information: |
| .. | | Can the actuator prevent instantaneous reversal, by forcing a delay between opening and closing operations, and therefore reducing mechanical stress on the actuator? | Yes  No  Additional Information: |
| .. | | Is an under-torque alarm available? | Yes  No |
| **.** | | **Noise Level** |  |
| .. | | Identify the highest noise level the actuators proposed. | Unknown  <= 75 dB(A) @ 1 m.  <= 80 dB(A) @ 1 m.  <= 85 dB(A) @ 1 m.  > 85 dB(A) @ 1 m. |
| **.** | | **Base Control and Monitoring** |  |
| .. | | Indicate the isolation of the discrete remote control inputs from the control circuitry. | Electromechanical (relay)  Optical isolation  No isolation  Other – describe below: |
| .. | | Identify available remote control voltages | 24 VDC  120 VAC |
| .. | | Indicate the availability and functionality of status contacts in the base actuator proposed. | Number of configurable form C contacts:  Number of fixed function form C contacts:  Number of configurable form A/B contacts:  Number of fixed function form A/B contacts: |
| .. | | Indicate the isolation of the status contacts (outputs) from the control circuitry. | Electromechanical (relay)  Optical isolation  No isolation  Other – describe below: |
| .. | | Contact Current Rating at 120 VAC | 0.5 A  > 0.5 A and <= 1.0 A  > 1 A and <= 2 A  > 2 A and <= 3 A  > 3 A and < 5 A  >= 5 A |
| **.** | | **Display / Controls** |  |
| .. | | Indicate the items which are available on the actuator local display. | Current position  Current torque  Other Details: |
| .. | | Is the display and control rotatable to ensure the correct orientation for various actuator mounting configurations? | Yes, rotatable in the field.  Yes, rotatable at the factory at the time of order.  Not rotatable.  Other Details: |
| .. | | Is the display and associated position indication available during a loss of the main power? | No.  Yes, via internal battery.  Yes, via external battery.  Other – describe below: |
| .. | | Identify the status LEDs available on the display, separate from the LCD display. | Open  Closed  Intermediate Position  Motor overheat  Torque fault – open and/or close  Bluetooth connection  PROFIBUS communication  Other – describe below: |
| .. | | Identify the color of the status LEDs. | Open  Not Available  Green  Configurable Green/Red  Red  Closed  Not Available  White  Blue  Configurable Green/Red/Yellow  Yellow  Red  Green  Intermediate  Not Available  Blue  White  Configurable Green/Red/Yellow  Yellow  Red  Green  Fault / Alarm  Not Available  Red  White  Blue  Configurable Green/Red/Yellow  Yellow  Green |
| **.** | | **Configuration** |  |
| .. | | Indicate how the actuator is configured | From the display  Manufacturer handheld configuration tool  Infrared  Bluetooth  Other  Smartphone application  Infrared  Bluetooth  Other  Laptop software  Bluetooth  Wired  Other  PROFIBUS Interface  Other Details: |
| .. | | Indicate how the actuator is locally configured in hazardous locations | From the display  Manufacturer handheld configuration tool – approved for hazardous locations  Other  Other Details: |
| .. | | Indicate how the actuator configuration is stored. | Stored in non-volatile memory.  Stored in battery-backed memory.  Other Details: |
| **.** | | **Safety Applications** |  |
| .. | | Does the actuator have a safety rated emergency shutdown feature? This feature may be optional and is not required to be provided in the base price. | Yes, describe below.  SIL 1  SIL 2  No  Approvals:  Additional Information: |
| **.** | | **Data Logging** |  |
| .. | | Data logging storage | Not available.  Battery backed memory.  Non-volatile memory. |
| .. | | Display of logged data is available via: | Local display  Configuration tool, later downloaded to PC.  Smartphone app  Laptop application  PROFIBUS interface |
| .. | | The following valve torque profiles are logged, stored within the actuator and available for viewing | Commissioning open / close  Last       actuator open / close operations.  Other:  Other Details: |
| .. | | The following valve statistics are logged and available | Number of operations  Peak torque  Other:  Other Details: |
| .. | | Are the actuator faults / trips logged and available? | No  Yes  All faults and alarms, with the date and time  Partial list of faults and alarms, with the date and time  Partial list of faults and alarms, without the date and time  Other:  Other Details: |
| .. | | Maximum number of faults / trips logged? | < 100  100 - 500  501 – 1000  1001 - 2000  2001 - 4000  > 4000 |
| **.** | | **Network Communication** |  |
| .. | | Indicate Network Communication Proposed | PROFIBUS DP (Select version below)  V0 (Not acceptable)  V1  V2 |
| .. | | Indicate Optional Network Communication Available (Without external gateway) | PROFIBUS PA  Foundation Fieldbus |
| .. | | PROFIBUS Remote Control Capability | Open  Close  Stop  Position Setpoint  Reset  Emergency operation command |
| .. | | PROFIBUS Remote Status/Feedback Capability | Open / Close  Current Position  Current Torque  Local / Remote  Running  Local Handwheel Operation  Torque Tripped  Motor Protection Tripped  Power / Phase Failure |
| .. | | Behaviour on loss of communication | Fixed – Actuator will:  Continue last command  Stop and hold position  Close  Open  Configurable – Actuator can be configured to:  Continue last command  Stop and hold position  Close  Open |
| **.** | | **Enclosure** |  |
| .. | | Enclosure ratings on all proposed actuators and included on the Form B prices. | NEMA 4  NEMA 4X  NEMA 6  IP 68  Submergence head:       m  Submergence time:       hours |
| .. | | Is the wiring terminal compartment sealed from the remainder of the actuator? | Yes  No  Other details: |
| .. | | Actuator enclosure material | Stainless Steel  Cast Aluminum  Ductile Iron  Other:  Other details: |
| .. | | Are the wiring compartment field terminals removable from the actuator to allow for rapid actuator replacement? | Yes – included in proposal  Not included in the proposal, but available as an option.  Not available.  Additional details: |
| **.** | | **Gearboxes** |  |
| .. | | Gearbox enclosure material | Stainless Steel  Aluminum  Iron |
| **.** | | **Multi-Turn Actuators** |  |
| .. | | Maximum available torque, direct (no external gearbox), @ ~20 rpm, for any standard model within the proposed model series. | < 1800 Nm  >= 1800 Nm and < 2000 Nm  >= 2000 Nm and < 2200 Nm  >= 2200 Nm and < 2400 Nm  >= 2400 Nm and < 2600 Nm  >= 2600 Nm |
| .. | | Encoder maximum number of detectable turns. If this is different depending on the model, indicate the most common standard configuration. | Maximum:       turns |
| **.** | | **Modulating Multi-Turn Actuators** |  |
| .. | | Maximum available number of starts-per-hour | starts / hour |
| **.** | | **Quarter-Turn Actuator** |  |
| .. | | Maximum available torque - direct (no external gearbox), for any standard model within the proposed model series. | Nm |
| .. | | Minimum available rated torque, for any standard model within the proposed model series. | Nm |
| **.** | | **Modulating Quarter-Turn Actuator** |  |
| .. | | Maximum available number of starts-per-hour | starts / hour |
| **.** | | **Maintenance and Service** |  |
| .. | | Lubrication requirements of actuator | No lubrication required – sealed for life.  Every 1 - 2 years  Every 3 years  Every 4 years  Every 5 years  > 5 years |
| .. | | Lubrication requirements of gearboxes | No lubrication required – sealed for life.  Every 1 - 2 years  Every 3 years  Every 4 years  Every 5 years  > 5 years |
| .. | | Identify other recommended maintenance requirements and frequency |  |
| .. | | Estimated actuator motor replacement time from the time the trained service technician arrives on site with the part. | < 1 hour  1 - 2 hours  3 - 4 hours  5 - 8 hours  > 8 hours |
| .. | | Estimated display unit replacement time from the time the trained service technician arrives on site with the part. | < 1 hour  1 - 2 hours  3 - 4 hours  5 - 8 hours  > 8 hours |
| **.** | | **Deficiencies and Additional Features** |  |
| .. | | Identify any deficiencies where the proposed products do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P. |  |
| .. | | Identify any additional features proposed that:   * significantly exceed the specified requirements, * would be of benefit to the City of Winnipeg; and * are included in the price in Form B.   Do not include any item identified elsewhere on Form P. |  |
| **.** | | **Specific Proposed Actuator Details** |  |
| **.** | | **Electric Actuator – Type 1, Multi-Turn, On/Off Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated torque? | N-m |
| .. | | Motor Duty Rating – Minutes Per Hour | Unknown  < 15 min / hour  15 min / hour  30 min / hour  Other:        min / hour |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  < 30 starts / hour  30 starts / hour  60 starts / hour  > 60 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200V, 3Ø, 60 Hz  115/120V, 1Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | turns |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 2, Multi-Turn, On/Off Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated output thrust? | kN |
| .. | | Motor Duty Rating – Minutes Per Hour | Unknown  < 15 min / hour  15 min / hour  30 min / hour  Other:        min / hour |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  < 30 starts / hour  30 starts / hour  60 starts / hour  > 60 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Gearbox details | Gearbox is not proposed – the actuator will directly actuate the valve/gate.  Gearbox is provided – details below  Model number:  Ratio: |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | turns |
| .. | | Gearbox Design Life | Gearbox is not proposed.  Gearbox design life is unknown.  Gearbox design life indicated below        output turns @       N-m  Other: |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 3, Multi-Turn, Modulating Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated torque? | N-m |
| .. | | Motor Duty Rating | Unknown  25%  33%  50%  Other: |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  1200 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200V, 3Ø, 60 Hz  115/120V, 1Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | starts |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 4, Multi-Turn, Modulating Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated output thrust? | kN |
| .. | | Motor Duty Rating | Unknown  25%  33%  50%  Other: |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  1200 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Gearbox details | Gearbox is not proposed – the actuator will directly actuate the valve/gate.  Gearbox is provided – details below  Model number:  Ratio: |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200V, 3Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | starts |
| .. | | Gearbox Design Life | Gearbox is not proposed.  Gearbox design life is unknown.  Gearbox design life indicated below        output turns @       N-m  Other: |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 5, Quarter-Turn, On/Off Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated torque? | N-m |
| .. | | Motor Duty Rating – Minutes Per Hour | Unknown  < 15 min / hour  15 min / hour  30 min / hour  Other:        min / hour |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  < 30 starts / hour  30 starts / hour  60 starts / hour  > 60 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200V, 3Ø, 60 Hz  115/120V, 1Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | cycles (on-off-on) |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 6, Quarter-Turn, On/Off Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated torque? | N-m |
| .. | | Motor Duty Rating – Minutes Per Hour | Unknown  < 15 min / hour  15 min / hour  30 min / hour  Other:        min / hour |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  < 15 starts / hour  15 starts / hour  30 starts / hour  60 starts / hour  > 60 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Gearbox details | Gearbox is not proposed – the actuator will directly actuate the valve/gate.  Gearbox is provided – details below  Model number:  Ratio: |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | cycles (on-off-on) |
| .. | | Gearbox Design Life | Gearbox is not proposed.  Gearbox design life is unknown.  Gearbox design life indicated below        output turns @       N-m  Other: |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 7, Quarter-Turn, Modulating Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated torque? | N-m |
| .. | | Motor Duty Rating | 25%  33%  50%  Other: |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  1200 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200V, 3Ø, 60 Hz  115/120V, 1Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | starts |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Electric Actuator – Type 8, Quarter-Turn, Modulating Duty** |  |
| .. | | Complete actuator model number |  |
| .. | | For the actuator proposed, identify the actual opening / closing time | seconds |
| .. | | What is the rated torque? | N-m |
| .. | | Motor Duty Rating | 25%  33%  50%  Other: |
| .. | | Motor Duty Rating – Starts Per Hour | Unknown  600 starts / hour  1200 starts / hour  Other:        starts / hour |
| .. | | Motor Duty Rating – % of Rated Actuator Torque | < 30%  30-35%  36-50%  > 50% |
| .. | | Gearbox details | Gearbox is not proposed – the actuator will directly actuate the valve/gate.  Gearbox is provided – details below  Model number:  Ratio: |
| .. | | Manual handwheel rim-pull at average running torque | N |
| .. | | Temperature Rating | °C to       °C |
| .. | | Supply Voltage | 575V, 3Ø, 60 Hz  208V, 3Ø, 60 Hz  200V, 3Ø, 60 Hz  Other - details below: |
| .. | | Motor Control | Solid State  Electromechanical contactor  Other - details below: |
| .. | | Actuator Design Life | starts |
| .. | | Gearbox Design Life | Gearbox is not proposed.  Gearbox design life is unknown.  Gearbox design life indicated below        output turns @       N-m  Other: |
| .. | | Encoder resolution | degrees of actuator output |
| .. | | Identify any items where the proposed product does not meet the specifications or the intent of the specifications. |  |
| **.** | | **Configuration Tools – Hardware and Software** |  |
| **.** | | **Field Configuration Tool – Hardware (Non-Mandatory)** |  |
| .. | | Provide description and model number of all provided configuration hardware. One item proposed on the right shall be included with each unit indicated on Form B, Item 9. | **Description** **Model Number** |
| **.** | | **Field Configuration Tool - Software** |  |
| .. | | Provide description and model number of all provided configuration software. One item proposed on the right shall be included with each unit indicated on Form B, Item 10. | **Description** **Model Number** |
| .. | | Identify smartphone app compatibility | Not provided  Windows 8  Android  Apple  Other  Other Details: |
| .. | | Identify PROFIBUS configuration files provided. | Not provided (Not acceptable)  GSD  EDD  DTM  Other:  Other Details: |
| **.** | | **Warranty** |  |
| **.** | | **General** |  |
| .. | | Actuator Warranty Length | One-year (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner) – Minimum Specified  Two years or longer from the date of delivery. Indicate length below:        years  Two years or longer (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner). Indicate length below:        years |
| **.** | | **Service and Support** |  |
| **.** | | **General** |  |
| .. | | Describe Bidder’s relationship with the manufacturer. | Bidder is the manufacturer  Bidder is a distributor  Other: |
| .. | | Proposed Bidder account manager: | Name:  Responsibilities:  Relevant Experience:  Certifications: |
| .. | | Bidder account manager’s hours of business |  |
| **.** | | **Local Support** |  |
| .. | | Describe who will be providing local support for the proposed products, and where they are located. |  |
| .. | | Local support hours of business |  |
| .. | | Local support personnel | Name:  Responsibilities:  Relevant Experience:  Certifications:  Years of experience with proposed products:  Name:  Responsibilities:  Relevant Experience:  Certifications:  Years of experience with proposed products: |
| **.** | | **Manufacturer Support Services** |  |
| .. | | Is manufacturer telephone technical support available? | Yes – complete technical support  Limited technical support (complete details below)  Not available.  Details: |
| .. | | Availability of telephone technical support? | 24/7  8am – 4:30pm CST  Other (complete below)  Other: |
| **.** | | **Delivery** |  |
| .. | | Proposed delivery timeframe for electric actuators from the date of order, for an order of up to ten (10) electric actuators. | Average:       calendar days  Maximum:       calendar days (Not to exceed 120) |
| **.** | | **Spare Parts** |  |
| .. | | Identify the closest location where comprehensive spare parts for the proposed actuators are located. | Winnipeg  Manitoba  Canada  United States  Other (complete below)    The proposed spare parts location is:  Currently in place.  Will be in place within 1 year of Contract award. |
| **.** | | **On-Site Training Session – Operation and Basic Maintenance** |  |
| .. | | Who is proposed to perform the training? | Name: |
| .. | | How many years of experience does the proposed trainer have with the manufacturer’s actuators? | Years of Experience:       years |
| .. | | List up to five customers for whom the proposed trainer has performed comparable training? | 1.  2.  3.  4.  5. |
| **.** | | **On-Site Training Session – Detailed Configuration and Service** |  |
| .. | | Who is proposed to perform the training? | Name: |
| .. | | How many years of experience does the proposed trainer have with the manufacturer’s actuators? | Years of Experience:       years |
| .. | | List up to five customers for whom the proposed trainer has performed comparable training? | 1.  2.  3.  4.  5. |