

|                           |  |         |      |
|---------------------------|--|---------|------|
| PROJECT:<br>R.069549.001  | <b>Edmonton Maximum Security Institution<br/>Pumphouse - Flowmeter and Diesel Storage<br/>Tank Replacement</b> | Form: 1 | No.: |
|                           |  | 1 of 3  |      |
| <b>COMMISSIONING FORM</b> |  |         |      |

|                        |
|------------------------|
| <b>DIESEL DAY TANK</b> |
|------------------------|

|                       |  |                |
|-----------------------|--|----------------|
| <b>IDENTIFICATION</b> | Equipment Tag:   | Serial Number: |
|                       | Location:  |                |
|                       | Model Number:  | Contractor:    |
|                       | Type:  | Manufacturer:  |
|                       | System Description: Safe container for flammable fluids (diesel), used as primary diesel source. |                |

|   |   |   |
|---|---|---|
| <input type="checkbox"/> Manufacturer reports | <input type="checkbox"/> Performance included | <input type="checkbox"/> Manuals included |
|---|---|---|

| INSTALLATION CHECK LIST                          |     |    |          |
|--|-----|----|----------|
| ITEM   | YES | NO | COMMENTS |
| Cabinet and General Installation                 |     |    |          |
| Emergency Vent Cap                               |     |    |          |
| Fuel Day Tank Control, Alarm, and Status Display |     |    |          |
| Fuel Containment                                 |     |    |          |
| Connexions Types and Sizes                       |     |    |          |
| Communication with (Building Automation System)  |     |    |          |

\*Attach the contractor installation check list.

## FUNCTIONAL TESTING RECORD

| FUNCTION / MODE   | TEST METHOD:<br>MANUAL, AUTOMATIC,<br>EITHER OR BOTH | REQUIRED<br>SEASONAL TEST<br>Y OR N |
|---|--|-------------------------------------|
| Start-up test switch shall test contacts for high, low, critical low, ECM (Energy Control Manager) functional, and containment switch to assure wiring of remote contacts is correct. |  |                                     |
| Control of Redundant Pump Operation   |  |                                     |
| Signal from an Electrical Analog Float Sensor   |  |                                     |
| Fuel Level Alarms   |  |                                     |
| Warning and Shutdown Conditions   |  |                                     |

|   |        |
|---|--------|
| Name of Technician:                       | Date : |
| Approved by:<br>(Commissioning Authority) | Date : |

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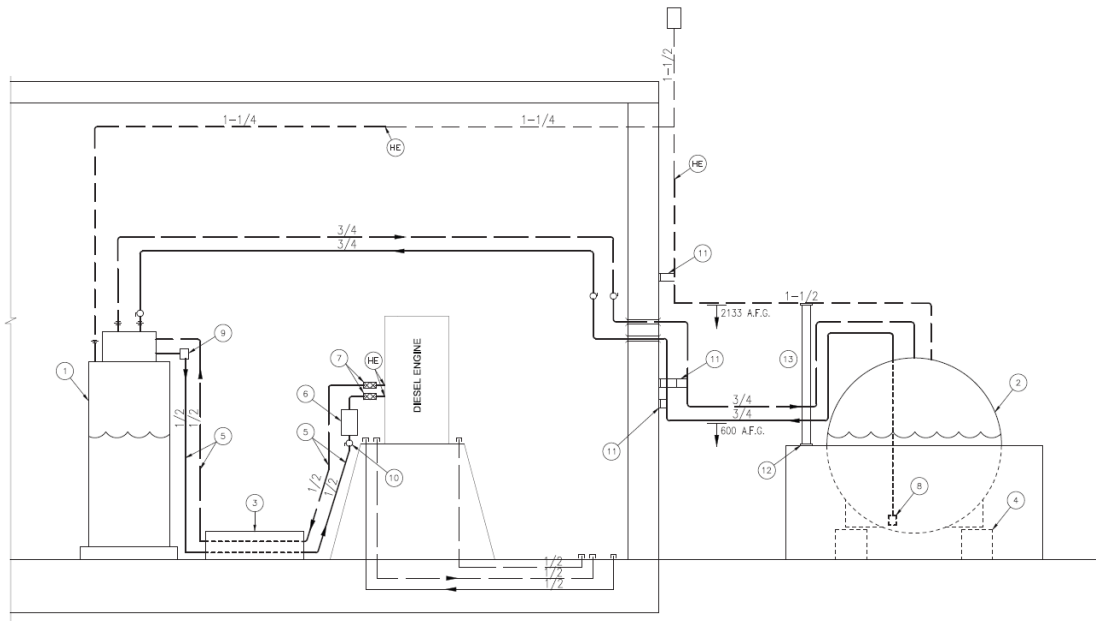
|                 |
|-----------------|
| DIESEL DAY TANK |
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| FUNCTION / MODE  | TEST METHOD:<br>MANUAL, AUTOMATIC,<br>EITHER OR BOTH | REQUIRED<br>SEASONAL TEST<br>Y OR N |
|--|--|-------------------------------------|
| Fuel Level Display:<br>.1 Full - 100% Green LED indicator.<br>.2 95% - Green LED indicator.<br>.3 85% - Green LED indicator.<br>.4 75% - Yellow LED indicator.<br>.5 50% - Yellow LED indicator.<br>.6 25% - Yellow LED indicator.<br>.7 10% - Yellow LED indicator.<br>.8 Empty - 6% - Red LED indicator.                       |  |                                     |
| Alarm Display:<br>.1 High Fuel - 106% or greater of capacity.<br>.2 Low Fuel - 62% of capacity.<br>.3 Critical Low Fuel - 6% of capacity.<br>.4 Fuel within containment.<br>.5 ECM functional - Tank fault.  |  |                                     |
| Function Display:<br>.1 Power on:<br>This button activates the ECM after the "Off" button has been depressed. On any initial power up condition, after a power outage, the ECM shall be in an on condition.<br>.2 Pump running:<br>For redundant pump operation fuel pump control panel shall indicate Pump A or Pump B running. |  |                                     |
| <b>Functional Test:</b><br>(Diesel control manager) test the sequence of operation (preprogrammed)   |  |                                     |

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| DIESEL DAY TANK          |   |         |      |

**Pumphouse Layout (Diesel Fuel Diagram)**



| MEMORANDUM<br>(Deficiencies, repair work, sound, and maintenance) | STATUS  |
|---|---|
|   | <input type="checkbox"/> Compliance                   |
|   | <input type="checkbox"/> Requires Additional Checking |
|   | <input type="checkbox"/> To be Completed              |
|   | <input type="checkbox"/> Out of Service               |
|   | <input type="checkbox"/> Non Compliance               |

|   |        |
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