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EQUIPMENT DATA RECORD

ANALYZER TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: AIT-100 Description: VRU 100 H2S Detection

Type:

Manufacturer: Model: Serial No.:

Calibrated Range: Accuracy: Sample Conditioning:

Device location: D0015 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Simulate and record simulated signal from analyzer transmitter and verify readings at the PLC/DCS and the HMI.
2. Calibration equipment:

Calibration Point (% LEL)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

REMARKS:

Signal Type = AI

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EQUIPMENT DATA RECORD

CURRENT TRANSMITTER

SYRINX

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Simulate and record simulated signal from transmitter and verify readings at the PLC/DCS and the HMI.

Calibration Point (Amps)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC/DCS shall be programmed to provide the following set points:

Low @ _____ amps ☐ Function: _____

Low Low @ _____ amps ☐ Function: _____

High @ _____ amps ☐ Function: _____

High High @ _____ amps ☐ Function: _____

REMARKS:

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EQUIPMENT DATA RECORD

CURRENT SWITCH

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: AY-100 Description: VRU 318 Alarm Blue Inside

Type:

Manufacturer: Model: Serial No.:

Voltage: Amps: Contact:

Device location: D-220-0015 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Simulate activation of switch
3. Alarm setting: PLC/DCS Input: Signal Type = DO

Set point @:

* Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD

VOLTAGE TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Simulate and record simulated signal from transmitter and verify readings at the PLC/DCS and the HMI.

Calibration Point (Volt)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

REMARKS:

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EQUIPMENT DATA RECORD

FLOW SWITCH

COMMISSIONING CHECK LIST

Form No.:

Tag No.: FSLL-681 Description: Lubricator Divider Valves

Type:

Manufacturer: --- Model: DNFT 506 Serial No.:

Voltage: Amps: Contact:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Manually activate switch
3. Alarm setting: PLC/DCS Input: Signal Type =

Set point @:

* Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD

LEVEL SWITCH

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: LSLL-671 Description: Glycol Day Tank

Type:

Manufacturer: SOR Model: 1510C-G2A-W9-ES-CS-NCCV Serial No.:

Voltage: Amps: Contact:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Manually activate switch
3. Alarm setting: PLC/DCS Input: Signal Type =

Low alarm @ _____ from _____ Rising ☐ Falling ☐

High alarm @ _____ from _____ Rising ☐ Falling ☐

* Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD

LEVEL TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: LIT-550 Description: Dirty Water Tank 550

Type:

Manufacturer: Rosemount Model: 5302 H A 1 S 1 E 5A E 036 00 CA Serial No.:

Calibrated Range: Accuracy: Contact:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Calibrate level transmitter loop to an accuracy setting representative of the calibrated range (+/- 0.03% for 5302 Radar)
2. Connect current calibrator to the transmitter. Install terminal fuse.
3. Simulate the following level and record indicated readings from the PLC/DCS and the HMI.
   Should calibration be required, refer to transmitter manual.
4. Calibration equipment:

Calibration Point (mm)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC/DCS shall be programmed to provide the following set poi

Low @		from		Function:	
Low Low @		from		Function:	
High @		from		Function:	
High High @		from		Function:	

REMARKS:

Signal Type = AI

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EQUIPMENT DATA RECORD

PRESSURE SWITCH

COMMISSIONINGCHECK LIST | **Form No.:**

Tag No.: PSLL-601 Description: Suction Scrubber Discharge

Type:

Manufacturer: Model: Serial No.:

Calibrated Range: Accuracy: Typical deadband:

Device location: 902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Simulate the pressure alarm and verify status in the PLC/DCS and the HMI
3. Calibration equipment:
4. Alarm setting: PLC/DCs Input: Signal Type =

   * Set point @: psig Rising ☐ Falling ☐

   * Switch point rising: psig Switch point falling: psig Deadband: psi

   * Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD

PRESSURE/VAC RUPTURE DISK

COMMISSIONINGCHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Accuracy: _____ Typical deadband: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Verify intrinsically safe barriers & enclosure properly install per location plan	☐	
3. Installation conforms to manufacturer;s and instr. installation detail	☐	
4. Connection wiring conforms to manufacturer's drawings	☐	
5. Connection wiring conforms to loop diagram	☐	
6. Tagging is attached and correct	☐	
7. Electrical approval certification attached	☐	
8. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Simulate the pressure alarm and verify status in the PLC/DCS and the HMI
3. Alarm setting: PLC/DCs Input: _____

* Set point @: _____ psig Rising ☐ Falling ☐

* Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD
PRESSURE TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: PIT-650 Description: I/A Compressor Building 348

Type:

Manufacturer: Rosemount Model: 3051TG3A2B21AB4C6M5P1Q4C Serial No.:

Calibrated Range: Accuracy: Diaphragm Seal(s):

Device location: SB2114 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Calibrate pressure transmitter loop to a minimum accuracy of +/- 0.1% of calibrated span.
2. Connect dead weight tester to the pressure transmitter. Install terminal fuse.
3. Simulate the following pressures and record indicated readings from the PLC/DCS and the HMI.
   Should calibration be required, refer to transmitter manual.
4. Calibration equipment:

Calibration Point (psig)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC shall be programmed to provide the following set points:

Low @ psig ☐ Function:

Low Low @ psig ☐ Function:

High @ psig ☐ Function:

High High @ psig ☐ Function:

REMARKS:

Signal Type = AI

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EQUIPMENT DATA RECORD

TEMPERATURE DEVICE -THERMOCOUPLE

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: TE -6060A Description: Melter Temperature

Type:

Manufacturer: Model: Serial No.:

Calibrated Range: Accuracy:

Device location: 107-019 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Connect precision Millivolt Source to the loop.
2. Simulate the following temperature and record indicated readings from the PLC/DCS and the HMI (and/or Motor Protection Relay) according to calibration Table.

Calibration Point (mV)		Equivalent Temp (°C)	PLC/DCS Register	HMI Register	Scada Register

Setpoint: In Protection Relay ☐ In PLC/DCS ☐

PLC/DCS Input: I/O Type = TC ; Card ID = TC06_G6_1112 : Channel = 0

Alarm @: °C ☐ Function:

Trip @: °C ☐ Function:

* Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD

RESISTIVE TEMPERATURE DEVICE - RTD

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Connect precision decade box at RTD (or at junction box at end of the loop).
2. Simulate the following temperature and record indicated readings from the PLC/DCS and the HMI (and/or Motor Protection Relay).

Calibration Point (Ohm)		Equivalent Temp (°C)	PLC/DCS Register	HMI Register	Scada Register

Setpoint: In Protection Relay ☐ In PLC/DCS ☐

PLC/DCS Input: _____

Alarm @: _____ °C ☐ Function: _____

Trip @: _____ °C ☐ Function: _____

* Alarm status: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

_____

_____

_____

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EQUIPMENT DATA RECORD

TEMPERATURE TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: TIT-318 Description: VRU Discharge Vapour to Battery

Type:

Manufacturer: Rosemount Model: 644 H A K6 J6 M5 F6 Q4 R05 R0 Serial No.:

Calibrated Range: Accuracy:

Device location: B902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Calibrate temperature transmitter loop to a minimum accuracy of +/- 0.1% of calibrated span.
2. Connect precision decade box at RTD (or at junction box at end of the loop).
3. Simulate the following temperature and record indicated readings from the PLC/DCS and the HMI (and/or Motor Protection Relay).
4. Calibration equipment:

Calibration Point (Ohm)		Equivalent Temp (°C)	Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC/DCS shall be programmed to provide the followi et points:

Low @	°C	☐	Function:	
Low Low @	°C	☐	Function:	
High @	°C	☐	Function:	
High High @	°C	☐	Function:	

REMARKS:

Signal Type = AI

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EQUIPMENT DATA RECORD

TEMPERATURE SWITCH

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: TSHH-602 Description: Vane Compressor V-600 Discharge

Type:

Manufacturer: Model: Serial No.:

Voltage: Amps: Contact:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Verify Operation: PLC/DCS Input: Signal Type =

PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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EQUIPMENT DATA RECORD

TEMPERATURE CONTROLLER OUTPUT

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____ Contact: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Calibrate Control Valve as per Datasheet.
2. Connect Control Valve. Install terminal fuse.
3. Simulate Valve action and record indicated readings from the PLC/DCS and the HMI.

   Should calibration be required, refer to Control Valve manual.

Valve Position		Analog Output (mA)	PLC/DCS Register	HMI Register	Scada Register
	Open/Close				
	75% / 25%				
	50%				
	25% / 75%				
	Close/Open				

The PLC/DCS shall be checked for following

Air Failure	Opens	☐	Closes	☐	Last Position	☐
Signal Failure	Opens	☐	Closes	☐	Last Position	☐

Control to Valve PLC/DCS Output: _____

REMARKS:

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EQUIPMENT DATA RECORD

CONTROL VALVE

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: PV-2100 Description: Treated Water

Type:

Manufacturer: Fisher Model: 1061-80 Wafer Style (Body Bolti Serial No.:

HP: Voltage: FLA: LRA:

Device location: 20-2100 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Calibrate Control Valve as per Datasheet.
2. Connect Control Valve. Install terminal fuse.
3. Simulate Valve action and record indicated readings from the PLC/DCS and the HMI.
   Should calibration be required, refer to Control Valve manual.

Valve Position		Analog Output (mA)	PLC/DCS Register	HMI Register	Scada Register
	Open/Close				
	75% / 25%				
	50%				
	25% / 75%				
	Close/Open				

The PLC/DCS shall be checked for following

Air Failure	Opens	☐	Closes	☐	Last Position	☐
Signal Failure	Opens	☐	Closes	☐	Last Position	☐

Control to Valve PLC/DCS Output: Signal Type =

REMARKS:

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EQUIPMENT DATA RECORD

PNEUMATIC OPERATED VALVE/SOLENOID

COMMISSIONING CHECK LIST **Form:**

Tag No.: PYV-2100 Description: Treated Water

Type:

Manufacturer: ASCO Model: EF8320G202-24 Serial No.:

HP: Voltage: FLA: LRA:

Device location: B0902 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Confirm instrument air line commissioned ☐
3. From HMI or PLC/DCS Program move valve/solenoid to closed condition. Verify operation of the valve/solenoid ☐
4. From HMI or PLC/DCS Program move valve/solenoid to open condition. Verify operation of the valve/solenoid ☐
5. Status indication on HMI display:
   - Valve/Solenoid status: Open ☐ Closed ☐ Travel ☐ Fail ☐

PLC/DCS I/O VERIFICATION

Control to Valve/Solenoid PLC/DCS Output: Signal Type = DO

REMARK:

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Construction:			
Commissioning Tech:			
Commissioning Lead			

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EQUIPMENT DATA RECORD

SCR ANALOG CONTROL

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____ Contact: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. From HMI or PLC/DCS program simulate signals to SCR Controller.
3. Verify analog output operation as per vendor manual.

REMARKS:

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Commissioning Lead			

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EQUIPMENT DATA RECORD

SCR DIGITAL CONTROL

COMMISSIONING CHECK LIST

Form No.:

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____ Contact: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. From HMI or PLC/DCS program simulate signals to SCR Controller.
3. Verify digital output operation as per vendor manual.

REMARKS:

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Construction			
Commissioning Tech.			
Commissioning Lead			

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EQUIPMENT DATA RECORD

SWITCH

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: VSHH-602 Description: Glycol Cooler C-602

Type:

Manufacturer: Murphy Model: VS-2EX Serial No.:

Voltage: Amps: Contact:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to I/O drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Manually activate switch
3. Verify Operation: PLC/DCS Input: Signal Type =

PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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Commissioning Tech.			
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EQUIPMENT DATA RECORD

SWITCH (JOG-OFF-AUTO)

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: HS-140 Description: Skim Pump P-140

Type:

Manufacturer: By Vendor Model: By Vendor Serial No.:

Voltage: Amps: Contact:

Device location: 220-2111 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to I/O drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Manually activate switch
3. Verify Operation:
   - PLC/DCS Input AUTO Position: Signal Type = DI
   - PLC/DCS Input JOG Position:
   - PLC/DCS Input OFF Position:

PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

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Construction			
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Commissioning Lead			

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EQUIPMENT DATA RECORD

PUSH BUTTON

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Voltage: _____ Amps: _____ Contact: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to I/O drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Manually activate switch
3. Verify Operation: PLC/DCS Input: _____

PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

HAND OPERATED VALVE

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

HP: _____ Voltage: _____ FLA: _____ LRA: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to mftr drawings (if applicable)	☐	
6.	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐

Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
- Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: _____

Close limit switch (ZSC) PLC/DCS Input: _____

REMARK:

_____

_____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

FLOW TRANSMITTER (LIQUID)

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Connect current source to flow transmitter
2. Simulate flow signals and record indicated readings from the PLC/DCS and the HMI.

Calibration Point (US gal/min)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC shall be programmed to provide the following set points:

Low @ _____ US gal/min ☐ Function: _____

Low Low @ _____ US gal/min ☐ Function: _____

High @ _____ US gal/min ☐ Function: _____

High High @ _____ US gal/min ☐ Function: _____

REMARKS:

_____

_____

_____

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

FLOW TRANSMITTER (LIQUID)

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to instrument installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Connect current source to flow transmitter
2. Connect digital input to flow transmitter.
3. Simulate flow signals and record indicated readings from the PLC/DCS and the HMI.

Calibration Point (US gal/min)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLCDCS shall be programmed to provide the following set points:

Low @ _____ US gal/min ☐ Function: _____

Low Low @ _____ US gal/min ☐ Function: _____

High @ _____ US gal/min ☐ Function: _____

High High @ _____ US gal/min ☐ Function: _____

REMARKS:

Analog PLC/DCS Input: _____

Digital PLC/DCS Input: _____

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

FLOW TRANSMITTER (GAS)

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Connect current source to flow transmitter
2. Simulate flow signals and record indicated readings from the PLC/DCS and the HMI.

Calibration Point (scfh)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC shall be programmed to provide the following set points:

Low @ _____ SCFN ☐ Function: _____

Low Low @ _____ SCFN ☐ Function: _____

High @ _____ SCFN ☐ Function: _____

High High @ _____ SCFN ☐ Function: _____

REMARKS:

_____

_____

_____

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

MOTOR OPERATED VALVE

SYRINX

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

HP: _____ Voltage: _____ FLA: _____ LRA: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening _____
   - Open Action: Limit ☐ Torque ☐ Torque value on opening _____
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: _____

Close limit switch (ZSC) PLC/DCS Input: _____

Control to Valve PLC/DCS Output: _____

Control to Valve PLC/DCS Output: _____

REMARK:

_____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

MOTOR OPERATED VALVE

SYRINX

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

HP: _____ Voltage: _____ FLA: _____ LRA: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening _____
   - Open Action: Limit ☐ Torque ☐ Torque value on opening _____
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: _____

Close limit switch (ZSC) PLC/DCS Input: _____

Control to Valve PLC/DCS Output: _____

REMARK:

_____

_____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

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EQUIPMENT DATA RECORD

MOTOR OPERATED VALVE

SYRINX

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

HP: _____ Voltage: _____ FLA: _____ LRA: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening _____
   - Open Action: Limit ☐ Torque ☐ Torque value on opening _____
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: _____

Close limit switch (ZSC) PLC/DCS Input: _____

Control to Valve PLC/DCS Output: _____

REMARK:

_____

_____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

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EQUIPMENT DATA RECORD

MOTOR OPERATED VALVE

COMMISSIONING CHECK LIST

Form:

Tag No.: FY -6762 Description: Module A Scrubber Water Sup. Flow

Type:

Manufacturer: Model: Serial No.:

HP: Voltage: FLA: LRA:

Device location: Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening
   - Open Action: Limit ☐ Torque ☐ Torque value on opening
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input:

Close limit switch (ZSC) PLC/DCS Input:

Control to Valve PLC/DCS Output:

REMARK:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

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EQUIPMENT DATA RECORD

MOTOR OPERATED VALVE

SYRINX

COMMISSIONING CHECK LIST **Form:**

Tag No.: FY -6869 Description: DC-6869 Dust Collector Outlet Flow Control

Type:

Manufacturer: Model: Serial No.:

HP: Voltage: FLA: LRA:

Device location: 107-2155 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening
   - Open Action: Limit ☐ Torque ☐ Torque value on opening
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: ZSO -6869 ; I/O Type = DI120 ; Card ID = DI16_P6_0902 : Channel = 4

Close limit switch (ZSC) PLC/DCS Input: ZSC -6869 ; I/O Type = DI120 ; Card ID = DI16_P6_0902 : Channel = 3

Hand switch (HS) PLC/DCS Input: HS -6869 ; I/O Type = DI120 ; Card ID = DI16_P6_0902 : Channel = 2

Control to Valve PLC/DCS Output: FY -6869 ; I/O Type = DO120 ; Card ID = DO16_P6_0907 : Channel = 5

REMARK:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

ACTUATED VALVE WITH LIMIT SWITCHES

SYRINX

COMMISSIONING CHECK LIST **Form:**

Tag No.: UV-510 Description: Produced Water Tank (T-510) Skim

Type:

Manufacturer: PBV Model: C6710-71-2236-GVNG Serial No.:

HP: Voltage: FLA: LRA:

Device location: 220-2102 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening
   - Open Action: Limit ☐ Torque ☐ Torque value on opening
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: ZSO-510-01; Signal Type = DI

Close limit switch (ZSC) PLC/DCS Input: ZSC-510-01; Signal Type = DI

Control to Valve PLC/DCS Output: UY-510-01; Signal Type = DO

REMARK:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

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EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: XS -802 Description: Antistat Multi-Pump Assembly Motor Control

Manufacturer: Type: Serial No:

Frame: Insulation Class: Enclosure:

HP: Speed: FLA: LRA:

Voltage: SF:

Device location: 107-2155 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. Manuf.: Rating: Serial:
2. Manuf.: Rating: Serial:

TESTING

1. Winding Resistance: **A-B:** Ohms **B-C:** Ohms **C-A:** Ohms
2. Winding Insulation Resistance: Test Voltage:
   (Phase to ground) **A-G:** M Ohms **B-G:** M Ohms **C-G:** M Ohms
3. Ground Impedance Test Current: Amps
   Ground Return Path Impedance Measured: Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
   XS -802_6 ; I/O Type = DI120 ; Card ID = DI16_P6_0901 : Channel = 1
2. Local Disconnect PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
3. Breaker Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
4. Auto/Manual Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. PLC/DCS Output: XS -802_6 ; I/O Type = DOR ; Card ID = DO16_P6_0909 : Channel = 2
   Function:
6. ESD Relay:
   Function:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

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EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____

Voltage: _____ SF: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps
   Ground Return Path Impedance Measured: _____ Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
2. Local Disconnect PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
3. Breaker Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
4. Start Push-Button PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. Stop Push-Button PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. PLC/DCS Output: _____
   Function: _____
7. ESD Relay: _____
   Function: _____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____

Voltage: _____ SF: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps
   Ground Return Path Impedance Measured: _____ Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
2. Local Disconnect PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
3. Breaker Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
4. PLC/DCS Output: _____
   Function: _____
5. ESD Relay: _____
   Function: _____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____

Voltage: _____ SF: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps
   Ground Return Path Impedance Measured: _____ Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
2. PLC/DCS Output: _____

REMARKS:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____

Voltage: _____ SF: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps
   Ground Return Path Impedance Measured: _____ Ohms

PLC/DCS I/O VERIFICATION

		PLC/DCS	HMI	Scada	Printer
1.	Run Status Input Forward: _____	☐	☐	☐	☐
2.	Run Status Input Reverse: _____	☐	☐	☐	☐
3.	Local Disconnect Input: _____	☐	☐	☐	☐
4.	Breaker Status Input: _____	☐	☐	☐	☐
5.	Auto/Manual Status Input: _____	☐	☐	☐	☐
6.	Push-Button Input Fwrd: _____	☐	☐	☐	☐
7	Push-Button Input Rev: _____	☐	☐	☐	☐
8.	Stop Push-Button Input: _____	☐	☐	☐	☐
9	Run Command Output Fwrd: _____				
10.	Run Command Output Rev: _____				
11.	ESD Relay: _____				

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____

Voltage: _____ SF: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps
   Ground Return Path Impedance Measured: _____ Ohms

PLC/DCS I/O VERIFICATION

		PLC/DCS	HMI	Scada	Printer
1.	Run Status Input Up: _____	☐	☐	☐	☐
2.	Run Status Input Down: _____	☐	☐	☐	☐
3.	Local Disconnect Input: _____	☐	☐	☐	☐
4.	Breaker Status Input: _____	☐	☐	☐	☐
5.	Auto/Manual Status Input: _____	☐	☐	☐	☐
6.	Push-Button Input Up: _____	☐	☐	☐	☐
7	Push-Button Input Down: _____	☐	☐	☐	☐
8.	Stop Push-Button Input: _____	☐	☐	☐	☐
9	Run Command Output Up: _____				
10.	Run Command Output Down: _____				
11.	ESD Relay: _____				

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____

Voltage: _____ SF: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps
   Ground Return Path Impedance Measured: _____ Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
2. DC Motor Speed Cntrl PLC/DCS Outnput: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
3. PLC/DCS Output: _____
   Function: _____
4. ESD Relay: _____
   Function: _____

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

DEVICENET MOTOR WITHOUT VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: PM-137 Description: Treated Water Pump Motor PM-137

Manufacturer: Type: Serial No:

Frame: Insulation Class: Enclosure:

HP: Speed: FLA: LRA:

Voltage: SF:

Device location: B0902 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. Manuf.: Rating: Serial:
2. Manuf.: Rating: Serial:

TESTING

1. Winding Resistance: **A-B:** Ohms **B-C:** Ohms **C-A:** Ohms
2. Winding Insulation Resistance: Test Voltage:
   (Phase to ground) **A-G:** M Ohms **B-G:** M Ohms **C-G:** M Ohms
3. Ground Impedance Test Current: Amps
   Ground Return Path Impedance Measured: Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
   Signal Type =
2. Fault Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
3. PLC/DCS Output:
   Function:
4. ESD Relay:
   Function:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

DEVICENET MOTOR WITH VFD

SYRINX

COMMISSIONING CHECK LIST **Form:**

Tag No.: PM-140 Description: Skim Pump P-140

Manufacturer: Type: Serial No:

Frame: Insulation Class: Enclosure:

HP: Speed: FLA: LRA:

Voltage: SF:

Device location: B902 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. Manuf.: Rating: Serial:
2. Manuf.: Rating: Serial:

TESTING

1. Winding Resistance: **A-B:** Ohms **B-C:** Ohms **C-A:** Ohms
2. Winding Insulation Resistance: Test Voltage:
   (Phase to ground) **A-G:** M Ohms **B-G:** M Ohms **C-G:** M Ohms
3. Ground Impedance Test Current: Amps
   Ground Return Path Impedance Measured: Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

1. Run Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
   Signal Type =
2. Fault Status PLC/DCS Input: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
3. PLC/DCS Output:
   Function:
4. DC Motor Speed Cntrl PLC/DCS Outnput: PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. PLC/DCS Output:
   Function:
6. ESD Relay:
   Function:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITH VFD

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____ Poles: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____ OL HZ: _____ OL Factor: _____

Voltage: _____ SF: _____ HZ: _____ Power Unit: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6. Check Local Pot functionality if applicable.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps Ground Rtrn Path Impedance Measured: _____ Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

		PLC/DCS	HMI	Scada	Printer
1.	ESD Relay: _____ Function: _____				
2.	VFD Available Input: _____	☐	☐	☐	☐
3.	Local Disconnect Input: _____	☐	☐	☐	☐
4.	Breaker Status Input: _____	☐	☐	☐	☐
5.	Auto/Manual Status Input: _____	☐	☐	☐	☐
6.	VFD Enable Output: _____				
7.	VFD Configuration: _____				

Function: _____

VFD Speed		DCS/PLC Output to VFD	PLC/DCS Register	HMI Register	SCADA Register

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LOW VOLTAGE MOTOR WITH VFD

SYRINH

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Manufacturer: _____ Type: _____ Serial No: _____

Frame: _____ Insulation Class: _____ Enclosure: _____ Poles: _____

HP: _____ Speed: _____ FLA: _____ LRA: _____ OL HZ: _____ OL Factor: _____

Voltage: _____ SF: _____ HZ: _____ Power Unit: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to drawings	☐	
6. Check Local Pot functionality if applicable.	☐	

AUXILIARY EQUIPMENT (H-O-A, START-STOP..)

1. _____ Manuf.: _____ Rating: _____ Serial: _____
2. _____ Manuf.: _____ Rating: _____ Serial: _____

TESTING

1. Winding Resistance: **A-B:** _____ Ohms **B-C:** _____ Ohms **C-A:** _____ Ohms
2. Winding Insulation Resistance: Test Voltage: _____
   (Phase to ground) **A-G:** _____ M Ohms **B-G:** _____ M Ohms **C-G:** _____ M Ohms
3. Ground Impedance Test Current: _____ Amps Ground Rtrn Path Impedance Measured: _____ Ohms
4. Motor Rotation from Drive End: C.W. C.C.W.

PLC/DCS I/O VERIFICATION

		PLC/DCS	HMI	Scada	Printer
1.	ESD Relay: _____ Function: _____				
2.	VFD Available Input: _____	☐	☐	☐	☐
3.	Local Disconnect Input: _____	☐	☐	☐	☐
4.	Breaker Status Input: _____	☐	☐	☐	☐
5.	VFD Enable Output: _____				
6.	VFD Configuration: _____				

Function: _____

VFD Speed		DCS/PLC Output to VFD	PLC/DCS Register	HMI Register	SCADA Register

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD
IGNITION TRANSFORMER

COMMISSIONING CHECK LIST **Form:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

HP: _____ Voltage: _____ FLA: _____ LRA: _____

Device location: _____ Equip. Class.: _____

CHECKLIST	YES	COMMENTS
1. Installation conforms to drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. From HMI or PLC/DCS Program energize ignition transformer. Verify operation of ignition transformer. ☐
5. Status indication on HMI display:
   - Ignition Transformer status: On ☐ Off ☐ Fail ☐

PLC/DCS I/O VERIFICATION

Ignition Transformer PLC/DCS Output: _____

REMARK:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

MELTER NEEDLE POSITION RELAY

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Calibrated Range: _____ Accuracy: _____ Contact: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. From HMI or PLC/DCS program simulate signals to Melter needle position relay.
3. Verify position relay operation as per vendor Melter needle manual.

REMARKS:

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

SERVO MOTOR

COMMISSIONING CHECK LIST | **Form:**

Tag No.: ZY -6080 Description: Melter Glass Flow Control Move Camera Left

Type:

Manufacturer: Model: Serial No.:

HP: Voltage: FLA: LRA:

Device location: 107-2155 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. From HMI or PLC/DCS Program move DVT camera left. Verify operation of the servo motor. ☐
3. From HMI or PLC/DCS Program move DVT camera right. Verify operation of the servo motor. ☐
4. Status indication on HMI display:
   - Servo motor status: Left ☐ Right ☐ Travel ☐ Fail ☐

PLC/DCS I/O VERIFICATION

Servo Motor PLC/DCS Output Move Camera Left: I/O Type = DOR ; Card ID = DO16_G6_1105 : Channel = 0

Servo Motor PLC/DCS Output Move Camera Right:

REMARK:

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

SWITCH (PHOTO EYE)

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

Voltage: _____ Amps: _____ Contact: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Install terminal fuse.
2. Manually activate photo eye.
3. Verify Operation: PLC/DCS Input: _____

PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐

REMARKS:

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

DVT CAMERA

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: FT -6465 Description: Bushing #5 Forehearth Glass Flow Control

Type:

Manufacturer: Model: Serial No.:

Calibrated Range: Accuracy: Contact:

Device location: 107-2155 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's & instr. drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Install communication interface modules for MODBUS communication.
2. From HMI or PLC/DCS program simulate signals from DVD Camera.
3. Verify operation as per DVT Camera manual.

REMARKS:

I/O Type = Enet ; Card ID = : Channel =

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

FIRE/FLAME DETECTOR

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: AIT-100-10 Description: VRU 318 Fire Detection

Type: UV/IR

Manufacturer: Net-Safety Model: UV/IRS-A Serial No.:

Voltage: Amps: Contact:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to installation detail	☐	
3. Connection wiring conforms to drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Power-up time delay:
2. Controller range: Controller output:
3. Setpoint: PLC/DCS In ☐ :: ☐ ☐ ☐
   * Set point @:
   * Alarm status: PLC/DCS HMI Scada Printer
   * IR Sensitivity:
   * UV Sensitivity:

REMARKS:

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

H2S DETECTOR

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: AIT-105-02 Description: Inlet/Outlet Filter Building 306 H2S

Type:

Manufacturer: Net-Safety Model: MLP-A-ST1200-50-SEP Serial No.:

Calibrated Range: Accuracy: Sample Conditioning:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Simulate and record simulated signal from analyzer transmitter and verify readings at the PLC/DCS and the HMI.
2. Calibration equipment:

Calibration Point (ppm)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register
AAL-100-01	1000				
AALL-100-01	na				
AAH-100-01	8000				
AAHH-100-01	na				

REMARKS:

Signal Type = AI

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

LEL DETECTOR

SYRINX

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: AIT-105 Description: Inlet/Outlet Filter Building 105 LEL

Type:

Manufacturer: Net-Safety Model: MLP-A-SC1100-SEP Serial No.:

Calibrated Range: Accuracy: Sample Conditioning:

Device location: B902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Tagging is attached and correct	☐	
5. Electrical approval certification attached	☐	
6. Maintenance access adequate	☐	
	☐	

CALIBRATION VERIFICATION

1. Simulate and record simulated signal from analyzer transmitter and verify readings at the PLC/DCS and the HMI.
2. Calibration equipment:

Calibration Point (% LEL)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

REMARKS:

Signal Type = AI

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

EMERGENCY SHUT DOWN VALVE

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: _____ Description: _____

Type: _____

Manufacturer: _____ Model: _____ Serial No.: _____

HP: _____ Voltage: _____ FLA: _____ LRA: _____

Device location: _____ Equip. Class.: _____

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Calibrate Control Valve as per Datasheet.
2. Connect Control Valve. Install terminal fuse.
3. Simulate Valve action and record indicated readings from the PLC/DCS and the HMI.
   Should calibration be required, refer to Control Valve manual.

Valve Position		Analog Output (mA)	PLC/DCS Register	HMI Register	Scada Register
	Open/Close				
	Close/Open				

The PLC/DCS shall be checked for following

Air Failure	Opens	☐	Closes	☐	Last Position	☐
Signal Failure	Opens	☐	Closes	☐	Last Position	☐

Control to Valve PLC/DCS Output: _____

REMARKS:

_____

_____

_____

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

EMERGENCY SHUT DOWN VALVE (with limit switches)

COMMISSIONING CHECK LIST **Form:**

Tag No.: ESDV-3800 Description: V-3800 Fuel Gas Slug Catcher Inlet

Type:

Manufacturer: - Model: - Serial No.:

HP: Voltage: FLA: LRA:

Device location: B267 Equip. Class.:

CHECKLIST	YES	COMMENTS
1. Installation conforms to mftr drawings and specifications	☐	
2. Electrical approval certification attached	☐	
3. Tagging and safety labeling are attached and correct	☐	
4. Equipment access for maintenance	☐	
5. Connection wiring conforms to manufacturer's drawings	☐	
6. Connection wiring conforms to I/O drawings	☐	

CALIBRATION VERIFICATION

1. Confirm mechanical commissioning has been completed ☐
2. Close power circuit for valve ☐
3. Record the following:
   - Direction of close: C.W. ☐ C.C.W. ☐
   - Close Action: Limit ☐ Torque ☐ Torque value on opening
   - Open Action: Limit ☐ Torque ☐ Torque value on opening
4. From HMI or PLC/DCS Program move valve to closed condition. Verify the following occurrences just as the limit of travel is reached

   Note: Closed limit switch is closed **and** Open limit switch is opened to indicate valve is closed. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
5. From HMI or PLC/DCS Program move valve to open condition. Verify the following occurrences just as the limit of travel is reached.

   Note: Closed limit switch is opened **and** Open limit switch is closed to indicate valve is opened. Check status

   PLC/DCS ☐ HMI ☐ Scada ☐ Printer ☐
6. Status indication on HMI display:
   - Valve status: Open ☐ Closed ☐ Travel ☐ Fail ☐

   Note: - Closed limit switch is closed **and** Open limit switch is closed to indicate valve is traveling
   - Closed limit switch is opened **and** Open limit switch is opened to indicate valve is in Fail state.

PLC/DCS I/O VERIFICATION

Open limit switch (ZSO) PLC/DCS Input: ZSO-3800

Close limit switch (ZSC) PLC/DCS Input: ZSC-3800

Control to Valve PLC/DCS Output: EY-3800

REMARK:

Signal Type =

ACCEPTED BY	NAME	SIGNATURE	DATE
Construction:			
Commissioning Tech:			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

MAGNETIC FLOW METER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: FIT-140 Description: Backwash/Skim Pumps P-139/140 Discharge

Type:

Manufacturer: Model: 8712ESR2A1N0M4 Serial No.:

HP: Voltage: FLA: LRA:

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

1. Connect current source to flow transmitter
2. Connect digital input to flow transmitter.
3. Simulate flow signals and record indicated readings from the PLC/DCS and the HMI.

Calibration Point (m3/hr)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC shall be programmed to provide the following set points:

Low @ m3/hr Function:

Low Low @ m3/hr Function:

High @ m3/hr Function:

High High @ m3/hr Function:

REMARKS:

Signal Type = AI

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

DIFFERENTIAL PRESSURE TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: DPIT-338 Description: Basket Strainer 500 Differentail Pressure (FUTURE)

Type:

Manufacturer: Model: (FUTURE) Serial No.:

Calibrated Range: Accuracy: Diaphragm Seal(s):

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

Calibration Point (psig)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC shall be programmed to provide the following set points:

Low @ psig Function:

Low Low @ psig Function:

High @ psig Function:

High High @ psig Function:

REMARKS:

Signal Type = AI

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

VIBRATION TRANSMITTER

COMMISSIONING CHECK LIST | **Form No.:**

Tag No.: VT-137 Description: Treated Water Pump P-137

Type:

Manufacturer: By Vendor Model: By Vendor Serial No.:

Calibrated Range: Accuracy: Diaphragm Seal(s):

Device location: B0902 Equip. Class.:

CHECKLIST		DEFECTS
1. Installation conforms to P&ID	☐	
2. Installation conforms to manufacturer's & inst. installation detail	☐	
3. Connection wiring conforms to manufacturer's drawings	☐	
4. Connection wiring conforms to I/O drawings	☐	
5. Tagging is attached and correct	☐	
6. Electrical approval certification attached	☐	
7. Maintenance access adequate	☐	

CALIBRATION VERIFICATION

Calibration Point (mm/s)		Analog Input (mA)	PLC/DCS Register	HMI Register	Scada Register

The PLC shall be programmed to provide the following set points:

Low @ mm/sec Function:

Low Low @ mm/sec Function:

High @ mm/sec Function:

High High @ mm/sec Function:

REMARKS:

Signal Type = AI

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			

Your Logo Here

EQUIPMENT DATA RECORD

MISCELLANEOUS

PRE-COMMISSIONING INSPECTION CHECK LIST | **Form No.:**

Tag No.: AY-106 Description: MCC Process Alarm Red Outside

Type:

Manufacturer: --- Model: --- Voltage: Current:

Feed from Panel: Circuit Reference: Protection Rating:

Device location: B902 Equip. Class.:

	CHECKLIST	YES	COMMENTS
.1	Installation conforms to drawings and specifications	☐	
.2	Electrical approval certification attached	☐	
.3	Tagging and safety labeling are attached and correct	☐	
.4	Equipment access for maintenance	☐	
.5	Check ground wire termination	☐	
	Lighting		
6.	Measure voltage at termination end	☐	
7.	Check operation of individual control switch	☐	
8.	Measure luminous intensity	☐	
9.		☐	
	Receptacle		
10.	Check interlock mechanism	☐	
11.	Measure voltage at each outlet	☐	
12.		☐	
	Attend control station (switch, push-button ..etc)		
13.	Check normal operation	☐	
14.	Check lock-off position operation	☐	
15.	**Signal Type = DO**	☐	
	Miscellaneous (smoke detector, door switch ..etc)		
16.	Check normal operation	☐	
17.	Device set point	☐	
18.		☐	
19.		☐	

REMARKS:

Signal Type = E

ACCEPTED BY	NAME (PRINT)	SIGNATURE	DATE
Construction			
Commissioning Tech.			
Commissioning Lead			