AQUAVAR IPC VARIABLE FREQUENCY DRIVES
START-UP REPORT

* This form is to be used by authorized personnel to verify proper application and installation of VFD

Job site name: ________________________  Address: ________________________________

Goulds Water Technology Distributor Name: ________________________________

Contact/Phone: ________________________  Date: ____________________________

- **Drive Information:**
  
  IPC P/N:  IPC S/N:


  SW ID Control Card (Parameter 15-49):

  System Control:  □ Pressure  □ Speed  □ Flow  □ BMS  □ Level  □ Sensor less

- **Motor Information:**

  Manufacturer:  P/N:  S/N:

  HP:  Full Load Amps:  SF Amps:  Voltage:  RPM:  PF:

  Motor Type:  □ Submersible  □ Surface

- **Pump Information:**

  Manufacturer:  P/N:  S/N:  Duty Point (GPM@PSI):

- **Electrical Information:**

  Transformer:  □ Wye  □ Floating Delta  □ Corner Ground Delta  □ Delta with Wild Leg  □ Open Delta

  Transformer KVAs:  VFD Input Wire Gauge (AWG):  VFD Input Wire Gauge (AWG):

  VFD to Motor Wire Length (ft):

  AC Input Voltage:  L1-L2:  L2-L3:  L3-L1:

  Output Current:  L1 (U):  L2 (V):  L3 (W):

  By-pass Current:  L1 (U):  L2 (V):  L3 (W):

  Display Current at 60Hz:

- **Programming Information (Genie Parameters):**

  Motor:  Power:  Voltage:  Frequency:  Speed:  Current:  Current Limit:

  Pump Application Type:  □ Booster
### Operating Mode:
- Single Pump Control
- Multi-Pump Control
- Speed Control

### Application Type:
- Constant Pressure
- Flow Control
- Level Control
- N/A

### Multipump Type:
- Multimaster Synchronous
- Multimaster MultiControl
- Fixed Master Synchronous
- Fixed Master MultiControl

### Control Feedback Sources:
- 1
- 2
- 3
- N/A

### Feedback Sources:
- AI53
- AI54
- Bus Feedback 1
- Bus Feedback 2
- Bus Feedback 3

### Low Feedback 1 Value:  
### High Feedback 1 Value:
- For Sensorless Mode:
  - Sensorless enabled: YES NO

### Speed at no flow:  
### Pressure at no flow speed:
- Speed at design point:
  - Setpoint 1: ID Sensorless:
  - If “Speed Control” Mode:

### Speed Reference Source:
- AI53
- AI54
- No Function
- N/A

### Terminal 53/54 Low Ref./F:
- Terminal 53/54 High Ref./F:

### Min Speed Reference: (Hz)
- Max Speed Reference: (Hz)

### Ramp Time:
- Fast
- Medium
- Slow

### Dual Setpoint:
- Enable
- Disable
- Setpoint 1:  
- Setpoint 2:

### Sleep Mode:
- Enable
- Disable
- Minimum/Sleep Frequency: (Hz)
- Sleep Delay: (s)

### Restart Difference 1: (%)
- Restart Difference 2: (%)

### Minimum Run Time: (s)
- Minimum Sleep Time: (s)
- Flow Check Window: (units)

### Did you Run the No Flow Power Calibration Setup?:
- YES (Enable)
- NO (Off)

### No Water/Loss of Prime Fault:
- Enable
- Disable

### No Water/Loss of Prime Limit:
- (hp)

### Under Pressure Function:
- Off
- Man. Reset Alarm
- Alarm
- Warning

### Under Pressure Delay: (s)
- Under Pressure Diff: (%)

- If Duplex:

### Duty Stand-By:
- Enable
- Disable

### Alternation:
- Enable
- Disable

### Alternation Time: (Hrs)

### Lag pump start frequency: (Hz)
- Lag pump stop frequency: (Hz)

### Number of Pumps:
- 2
- 3
- 4

### Run Time Equalization:
- Enable
- Disable

### Staging Bandwidth: (%)
- SBW Staging Delay: (s)

### SBW Destaging Delay: (s)
• Installation Check List:

Is the VFD is properly fused per IOM? Yes □ No □ Fuses Size (amps):

Is the VFD is properly mounted as IOM? Yes □ No □ Motor Rotation Checked? Yes □ No □

Are all hardware, control/power cables and mechanical connections properly tight? Yes □ No □

Checked the pump shaft is moving freely by hand: Yes □ No □

➢ Constant Pressure Mode:

1. Does system reach setpoint? Yes □ No □
2. Does drive shut down at sleep speed (test with discharge closed) Yes □ No □
3. Does drive fault for “Sensor Fault” (test by un-plugging sensor) Yes □ No □
4. Does drive fault for “Under Pressure” (Run at full flow, below setpoint) Yes □ No □
5. Does drive fault for “no water/loss of prime” (run without water on suction side) Yes □ No □

➢ Speed Control:

1. Send 4mA or 0V, does drive run at minimum frequency? Yes □ No □
2. Send 20mA or 10V, does drive run at maximum frequency? Yes □ No □

➢ Duplex operation

1. Test constant pressure settings:
2. Does lag drive (#2) wake up when Lead Drive (#1) reaches 59 hz? Yes □ No □
3. Does lag drive (#2) wake up and run when fault detected or power removed from lead drive?
   Yes □ No □

*I certified this start-up for VFD has been accomplished according with GWT IOM

Start-up Performed By: ___________________________ Date: ___________________________