

## **Simplex Start Up Procedure**

SST Day Tank Verification

Type: \_\_\_\_\_

Work Order: \_\_\_\_\_

### Mechanical Check List

- Verify Day Tank venting per piping diagram provided.
- Verify engine supply and return lines per piping diagram provided.
- Verify inlet, overflow, and drain line to main storage tank per piping.

### Electrical Check List:

- Verify equipment ground per electrical diagram provided.
- Verify control power connections. (480,208-230,or 120)
- Verify motor power connections. (480,208-230,or120)
- Verify float and motor plug connections.

### Operations Check List

- Place SST control switch to off position.
- Turn on control power and motor power to the SST control box.
- Verify "power available" light.
- Verify "system off" light flashing.
- Verify "low level" light is on.
- Place SST control switch to auto.
- Verify "pump running" light is on.
- Verify motor is operating.
- Verify Day Tank is filling.
- Verify "low level" light shuts of.
- Verify "pump start" light turn on.
- Verify "pump start" light shuts off.
- Verify "normal operating range" light turns on.
- Verify "normal operating range" light turns off.
- Verify "normal max level" light turn on.
- Verify "pump running" light shuts off and the pump shuts off.
- Depress the pump test push button.
- Verify the "pump running" light turns on.
- Verify the pump is running.
- Verify the Day Tank is filling.
- Verify "overflow alarm" light turns on.
- Verify "pump running" light shuts off.
- Verify the pump shuts off.
- Verify "overflow backup activated" light turns on.
- Drain fuel level back to "normal max" level.
- Place SST control switch to off and back to auto.
- Verify "overflow backup activated" light shuts off.

#### Optional Leak Float Check List

- Raise the leak float switch in the rupture basin.
- Verify “tank rupture” light is on.
- Verify no other light indications are present on the SST control box.
- Depress the push to reset push button.
- Verify the SST light indications have returned.

#### Optional Overflow Return Operation Check List

- Verify the Day Tank is filled to approximately 70%.
- Verify “overflow return pump armed” light is on.
- Verify the SST controller is between normal and normal max range.
- Turn the SST control switch to manual.
- Verify “overflow alarm” light is on.
- Verify “overflow pump running” light is on.
- Turn the SST control switch to off.
- Verify the overflow return pump is running.
- Verify the overflow return pump shuts off at 70%.
- Verify “Overflow pump running” and “overflow return pump armed” lights have shut off.
- Turn the SST control switch to manual.
- Verify “overflow return pump armed” light is on.
- Turn the SST control switch to off.
- Push the “overflow pump motor press to test” button.
- Verify the overflow return pump is running.
- Verify “overflow return pump running” light is on.
- Verify the overflow pump shuts off at 70%.
- Verify “overflow return pump running” and “overflow return pump armed” lights have shut off.

#### Optional Duplex Operation Check List

- With the Day Tank in “low level”, turn the SST control switch to auto. Place the duplex switch in the alternate position.
- Verify “tank fill pump #1” and “tank fill pump #2” lights are on.
- Verify both pumps are running.
- Verify “pump start” light is on.
- Turn the SST control switch to off and back to auto.
- Verify “tank fill pump #1” or “tank fill pump #2” light is on.
- Verify one pump is running.
- Turn the SST control switch to off and back to auto.
- Verify the opposite “tank fill” light is illuminated and running. This will verify the lead and lag operation.
- Turn the SST control switch to off.
- Turn the duplex switch to both.
- Turn the SST control switch to auto.
- Verify both “tank fill” lights are on and both pumps are running.
- Turn the SST control switch back to off.

- ❑ Turn the duplex switch back to alternate.
- ❑ Turn the SST control switch to auto.
- ❑ Verify proper operation.

Technician's Signature: \_\_\_\_\_

Date: \_\_\_\_\_