

## SegreTECH Procedure

### Sand Separator New Site Setup – With Weight Measurement (Scales)

**Objective:**

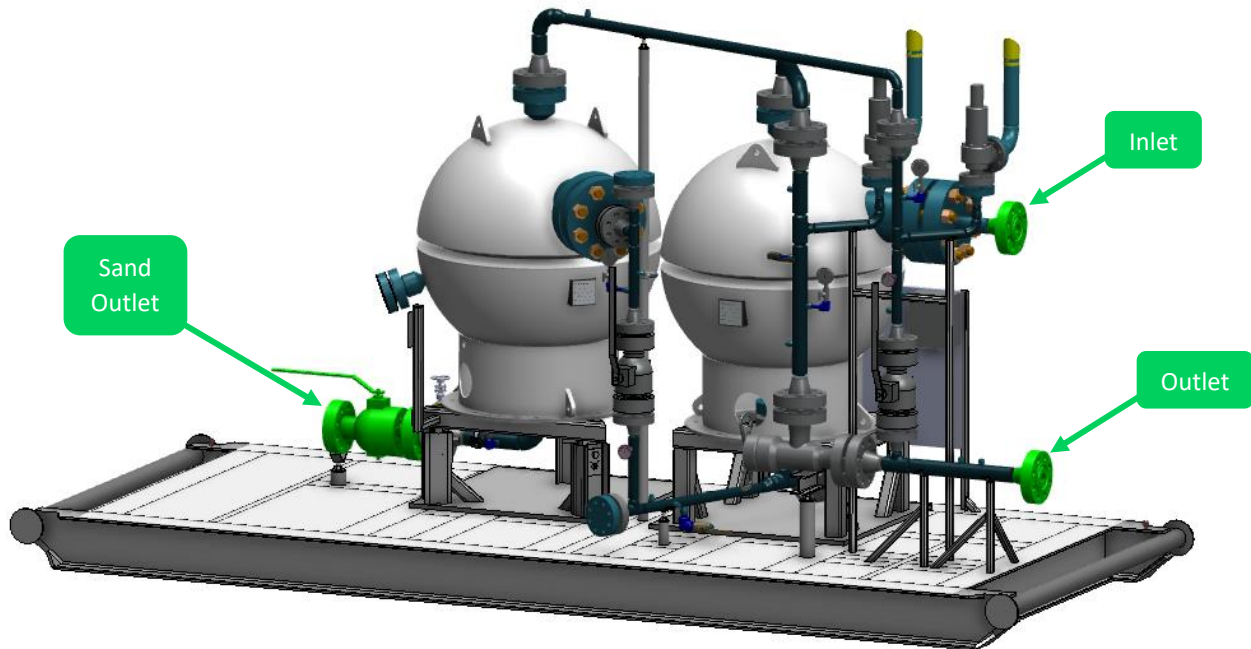
Set up sand separator for operation on a new site.

**Safety Hazards:**

Lifting / hoisting of equipment; Pressurized equipment; Use of Ladders; Electrical

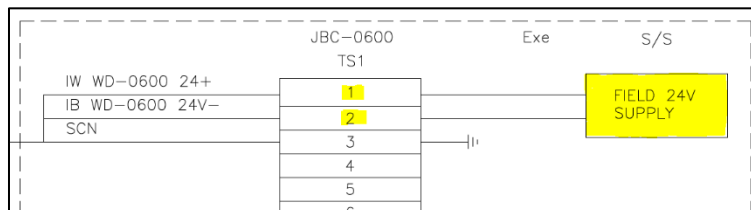
**EQUIPMENT INSTALLATION**

1. Set unit in place using transportation company safe work practices for unit placement.  
**NOTE: Unit should set as level as possible to assist with scale accuracy.**
2. Install and tighten **Inlet**, **Outlet** and **Sand Outlet** connections to existing piping using site specific safe work practices.



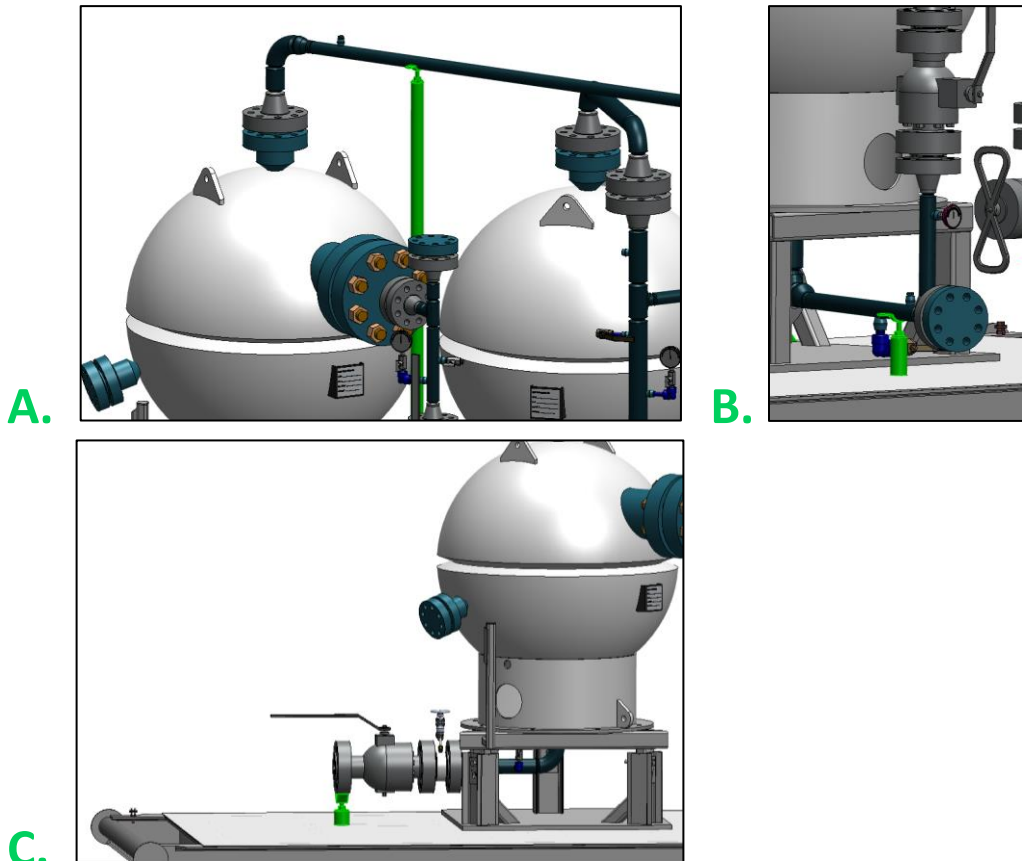
*(NOTE: Unit shown above may not be identical to actual unit in the field. Buildings not shown for clarity)*

3. Connect 24 VDC power to terminals 1 & 2 in the junction box, fused at 1 amp.

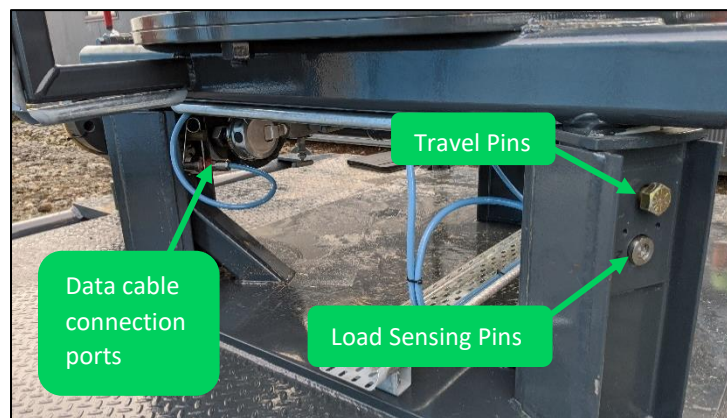


**NOTE: Refer to SegreTECH electrical drawing for further details.**

4. Lower piping supports as follows,
  - A. Top 2" Outlet line from Containment Sphere
  - B. Bottom 2" transfer line between spheres
  - C. Bottom 3" Dump Valve under flange, turn this support sideways so it is not contacting flange.

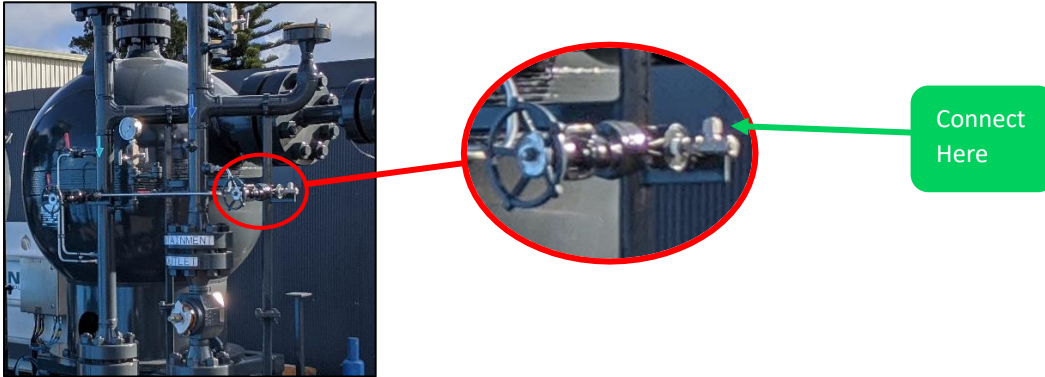


5. Jack up Containment Sphere and remove Travel Pins (multiple jacks may be required).  
**NOTE: Care must be taken to ensure that data cables don't get pinched/damaged.**
6. Insert Load Sensing Pins and ensure proper vertical alignment then connect data cables to the data cable connection ports on the Load Sensing Pins.



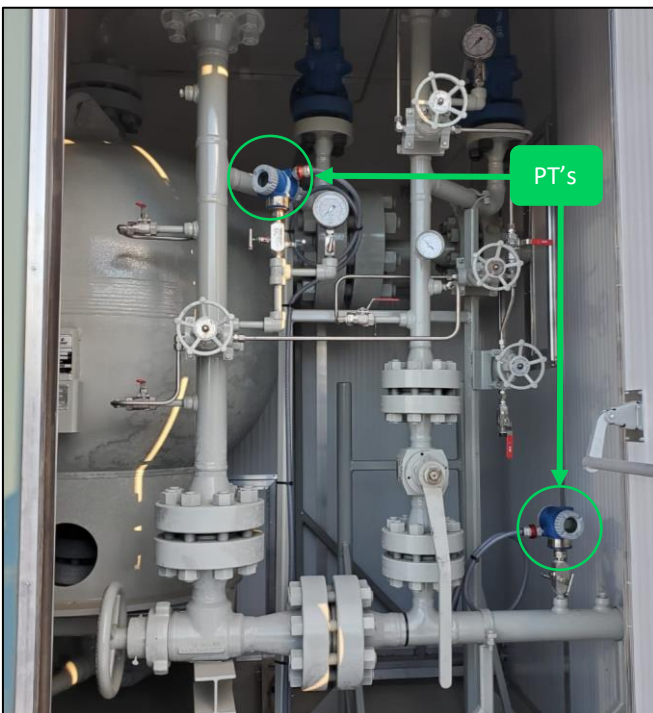
7. Slowly lower the Containment Sphere down onto the load sensing pins.

8. Check each pin to ensure that they are carrying the load and are still vertically aligned.
9. Inspect the three pipe supports shown in step 4 and ensure there is at least 1/2in. (13mm) clearance between pipe and support.
10. If not already connected, connect the optional de-pressure tubing line to the de-pressure globe valve located above the 3" Containment Outlet valve.



## **PRESSURE TRANSMITTER, LOAD SENSING PIN AND METER OPERATION**

1. Activate power to the sand separator and ensure that there is power to the 2 Pressure Transmitters (PT's) and the Precision Digital (PD8) scale readout. The PT's can be found before and after the choke valve. The PD8 is mounted close to the sand outlet valve.



*(NOTE: Unit shown above may not be identical to actual unit in the field. Buildings not shown for clarity)*

2. Check to ensure that the PD8 is giving the proper weight and mV readings.



The top line represents weight (lb or kg).

The bottom line shows the total mV from the load sensing pins.

3. Once the unit is online and felt to be full of liquid, the weight reading can be “Tared” (reset) by removing the front of the safety housing and pushing the bottom RH button labelled “Tare”. The button should only be pushed once.

**NOTE: The front of the housing can be unscrewed from the unit by rotating it counterclockwise.**

4. Once the unit has been “Tared”, replace the housing cover and ensure that it is snug against the O-ring to seal.

**NOTE: Do not overtighten and distort o-ring.**

5. The sand separator is now ready for operation. Refer to ***SegreTECH Operating Procedures*** for operating instructions.