

1. Procedure summary

This procedure outlines the method of running decanter bypass to sump

1 Related Procedures

Valve set up
Hose set up
TA strainer
Starting and shutting down

1 Procedure impacts and concerns

Safety	Always ensure all valves and hoses are working properly. Always make sure valves are marked properly. Wear gloves when connecting hoses. Watch for hoses lying on ground to avoid any tripping hazards.
Quality	Ensure all valves and hoses are set up In the proper order
Environmental	Make sure all hoses have gaskets on them to prevent spill.
Compliance	Check map to know which valves need to be opened or closed.

1 Responsibilities and owners

Document Owner	Manage content and distribution	Leo Willis
Process Owner	Responsible for content and process validation	Rebecca White
Site Manager	Responsible for implementation and conformance	Rebecca White

1 Process description

There are 4 parts to this procedure:

1. Set up valves
2. Hose setup
3. TA Strainer removal
4. Start up and shut down

2. Valve set up

- 2.1. Ensure TA pump is OFF before moving any valves
- 2.2. Let DAF operator know when to remove TA strainer.
- 2.3. Close TA-V211 (valve should be perpendicular to pipe when closed). **See figure 1.**
- 2.4. Open TA-V212 (valve should be parallel to pipe when open). See figure 1.
- 2.5. These two valves are located on the northwest corner on the inside of the decanter building on the decanter feed line.
- 2.6. Always ensure you have or know all the valve numbers and locations prior to opening or closing any valves.

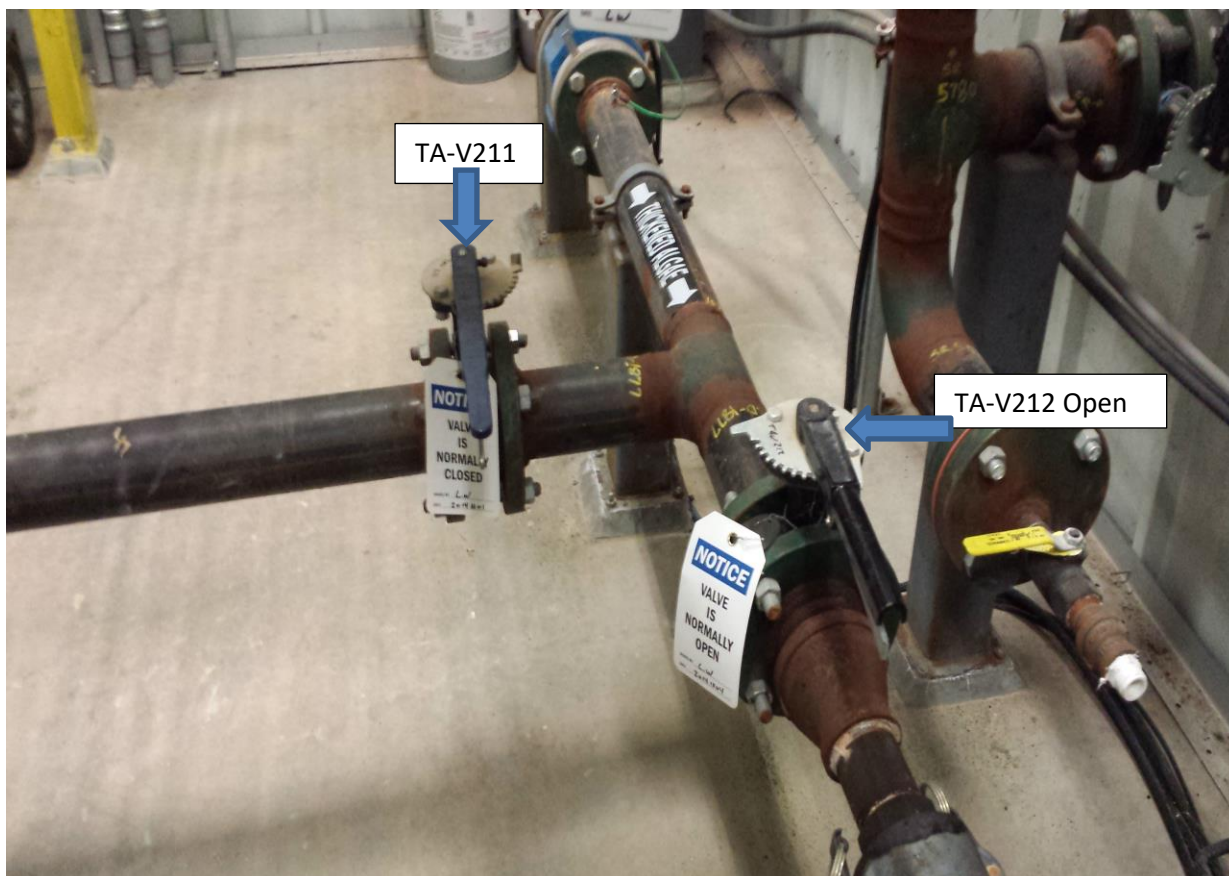


Figure 1.

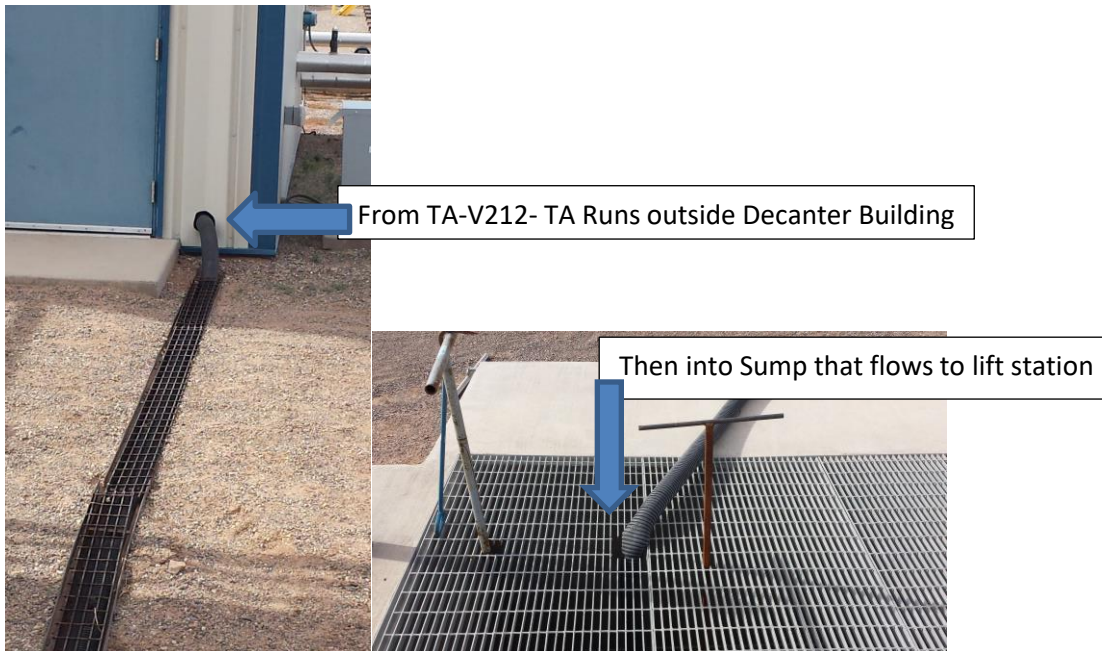


Figure 2

3. TA strainer removal.

- 3.1. Once strainer is removed call HMI operator to verify you're ready. Refer to TA basket strainer replacement SOP.
- 3.2. When bypass is complete have DAF operator reinstall TA strainer. Refer to TA basket strainer replacement SOP.

4. Bypass Startup

- 4.1. Once valves are in correct position, and strainer removed contact HMI operator and let them know they can begin bypass.
- 4.2. Also check to make sure lift station pumps are running correctly so high level alarm does not go off.
- 4.3. If product going into sump is too thick you will need to set up a water hose by sump valve on south side of sump to water down product.

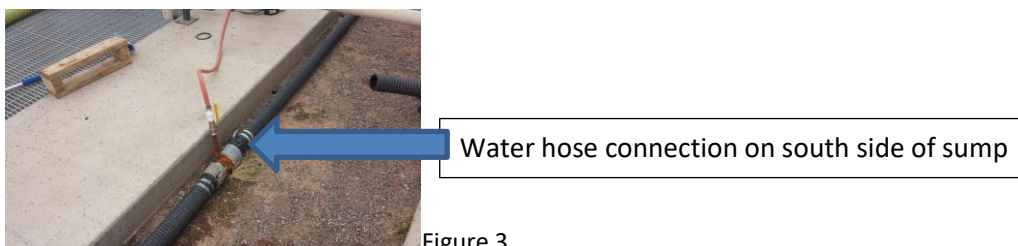


Figure 3

5. Bypass Shutdown

- 5.1. When finished sending product through bypass make sure to have HMI operator turn on spray valves on DAF to wash out lines and hoses so no algae gets dried up in hoses or lines. Leave water hose on until you see water come out clear in lift station. See figure 3.
- 5.2. Once flushing of lines is complete and all the hoses drain, close TA-V212 (valve should be perpendicular to line when it is closed). See figure 1.
- 5.3. Open TA-V211 If decanter will be used again. (Valve should be parallel with pipe when open). See figure 1.
- 5.4. Have DAF operator reinstall TA strainer. Refer to TA basket strainer replacement SOP.
- 5.5. Contact HMI operator to place TA pump to program mode to start feeding decanter.
- 5.6. **When running bypass always make sure that start and stop times are recorded on your production log.**

Required documents

- 1.1. **Input documents**
Valve checklist with operators initials
- 1.2. **Output documents**
Valve checklist with operators initials

2. Document control**2.1. Revision history**

R0 – Initial Release –	
R1 – Updated procedure – Leo Willis	20141204

2.2. Document approval

<Approval date>

2.3. Document reviewers

<Last reviewed date>

<Last reviewed date>