

UNCONTROLLED

Applicable Field Changes _____

SOP 63-10

SUBMERGED BED SCRUBBER RECEIVER SOLUTION TRANSFERS

Rev. 0

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System Quality Level N

System Safety Class N

The estimated accumulated dose for the work described
in this document or is less than 100 mrem.

WEST VALLEY NUCLEAR SERVICES CO., INC.

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RECORD OF REVISION

PROCEDURE

If there are changes to the procedure, the revision number increases by one. These changes are indicated in the left margin of the body by an arrow (>) at the beginning of the paragraph that contains a change. If the paragraph or section contains a partial revision and/or addition, the revised section is enclosed with arrows (>> ... <<).

Example:

> The arrow in the margin indicates a change. >>These arrows indicate that this section has been revised and/or added.<<

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RECORD OF REVISION (CONTINUATION SHEET)

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SUBMERGED BED SCRUBBER RECEIVER
SOLUTION TRANSFERS

1.0 SCOPE

This procedure applies to non-radioactive solution transfers made by Vitrification Operations from the Submerged Bed Scrubber (SBS) Receiver to various tanks in the Vitrification Facility. This procedure is for interim use until permanent installation is completed.

2.0 ABBREVIATIONS

- 2.1 MFHT - Makeup Feed Hold Tank
- 2.2 SBS - Submerged Bed Scrubber
- 2.3 TCCFMUB - Temporary Cold Chemical Feed Makeup Building
- 2.4 11K - 11,000 Gallons

3.0 RESPONSIBILITIES

- 3.1 The Vitrification Test Group Manager is responsible for directing the overall operation of the Vitrification System.
- 3.2 Vitrification Test Engineering is responsible for the technical operation of the Vitrification System.
- 3.3 The Vitrification Operations Shift Supervisor is responsible for assignment of properly trained operators at the Vitrification Facility and for day-to-day direction of those operators.

3.4 The Vitrification Operator is responsible for operation of the plant according to approved operating procedures, run plans, sample schedules, and the operating procedures in this SOP. When a situation is not covered by a procedure, he/she is responsible for notifying the Vitrification Operations Shift Supervisor.

3.5 Quality Assurance will perform surveillance of the ongoing work as deemed appropriate.

4.0 TOOLS, EQUIPMENT, COMPONENTS, AND REFERENCES

4.1 Tools, Equipment, and Components

4.1.1 Melter Feed Hold Tank 63-V-11

4.1.2 West Cold Chemical Feed Makeup Tank 65-D-02

4.1.3 East Cold Chemical Feed Makeup Tank 65-D-01

4.1.4 11,000-Gallon Tank 63-D-18

4.1.5 SBS Receiver

4.1.6 Demineralized Water

4.1.7 Double Diaphragm Air Operated Pump

4.1.8 2-inch Chemical Transfer Hose and associated stainless steel hose fittings

4.1.9 Utility and Instrument Air

4.2 References

4.2.1 WVDP-011, Industrial Hygiene and Safety Manual

5.0 GENERAL

5.1 SBS Receiver Construction

The receiver is a 304L stainless steel 1,450-gallon tank measuring 11 feet 4 inches high and 8 feet outer diameter. It is located in the Vitrification Facility pit which is -50 ft x 38 ft x 14 ft deep. The receiver tank provides lag storage for condensate collection by the SBS receiving fluid from the recirculation vessel by overflow. The receiver is equipped with an air sprayer and cooling coils. The Vitrification Facility pit is constructed of concrete lined with stainless steel and is equipped with a sump.

5.2 Review and comply with appropriate sections of the Vitrifications operations monthly IWP for solution/slurry transfers.

5.3 Operators should perform frequent checks on systems that are turned on or shut down to assure that the system does what is expected, i.e., water flows, pressure rises, level indicators, etc. If the required action that is supposed to happen does not happen, (1) stop - do not attempt to perform the next step, (2) secure system in a safe mode, and (3) notify shift supervisor immediately.

6.0 PROCEDURE

ALL STEPS IN THIS PROCEDURE WHICH REQUIRE AN INSPECTION, THE RECORDING OF DATA, OR A SIGN-OFF WILL BE DENOTED BY A [+] IN THE LEFT HAND MARGIN. THE INSPECTION RESULTS, DATA, OR SIGN-OFF WILL BE RECORDED IN THE VITRIFICATION OPERATIONS LOG BOOK, VITRIFICATION TANK LEVEL LOG, AND/OR SAMPLE LOG.

Any deviations from pump and/or hose type, or size, materials of construction shall be approved by the shift supervisor.

6.1 Solution Transfers from the SBS Receiver to the Melter Feed Hold Tank 63-V-11

[+] 6.1.1 Verify the transfer with the shift supervisor.

6.1.2 Obtain the Melter Feed Hold Tank (MFHT) 63-V-11 level.

- a. If the MFHT agitator is on, turn it off and tag per Standing Instruction 005.
- b. Remove MFHT port "C" cover.
- c. Insert the wooden stick marked in inches into the MFHT.
- d. Remove the stick and replace the MFHT port "C" cover. Note the inches on the stick.
- e. Untag per Standing Instruction 005 and turn on the MFHT agitator, if there is sufficient solution/slurry.

6.1.3 Obtain the SBS Receiver level by:

- a. Remove nozzle "G" cover.
- b. Insert the wooden stick marked in inches, into the receiver.
- c. Remove the wooden stick and note the inches on the stick.

d. Replace nozzle "G" cover.

e. Using the calibration chart for the receiver convert inches to gallons.

[+], 6.1.4 Verify the MFHT tank has the void capacity to hold the - amount of solution/slurry to be transferred. Compare the levels obtained in steps 6.1.2 and 6.1.3 with the levels last recorded in the Vitrification Tank Level Log Book. If there is a large discrepancy between the levels, contact the shift supervisor.

Void Capacity = .90 (Total Capacity) - Present Volume

6.1.5 Check with the shift supervisor or cognizant engineer to see if samples of either tank contents is required before the transfer. If required, take the sample, label, and log in Sample Log.

6.1.6 Place a stainless steel diaphragm pump close to the SBS. (The 3-inch stainless wilden is the quickest pump to use.) The placement of the pump is up to the discretion of the operator performing the transfer.

6.1.7 Connect a 2-inch chemical transfer line and secure with KAMLOK fittings from the pump inlet to the SBS receiver dip leg nozzle "K".

6.1.8 Connect a 2-inch chemical transfer line and secure with KAMLOK fittings from the pump discharge and connect to the MFHT nozzle or port with a KAMLOK fitting.

- 6.1.9 Connect a air supply line via snap tight connections between the utility air supply or instrument air supply from any utility drop in the CTS, to the pump.
- 6.1.10 Check that the utility air supply valve at the pump inlet is closed.
- 6.1.11 Check the utility air oiler for sufficient oil level. If oil is low, add killfrost oil to bowl. Oil should feed approximately one drop per minute.
- 6.1.12 If air supply has a trap in line, follow steps 6.1.13 to 6.1.17. If not, continue at step 6.1.18.
- 6.1.13 Open air supply valve, the secondary supply valve after air dryer should be closed.
- 6.1.14 Open the petcock at the bottom of the trap the CTS utility drop station.
- 6.1.15 Open air supply valve and drain any condensate from the trap
- 6.1.16 Close the trap petcock.
- 6.1.17 Close utility air valve.
- 6.1.18 Walk the transfer line and verify all the connections are secure and all KAMLOK fittings are tie wrapped.
- 6.1.19 Open the utility air supply valve at the pump inlet.
- 6.1.20 Open the utility air supply valve and throttle until smooth pumping action is achieved.

- 6.1.21 Check that the MFHT is receiving the solution, by visually checking through port "C" on the MFHT. (Turn off the agitator if needed.)
- 6.1.22 Walk the transfer line and check for leaks. If there are any leaks, stop the pump and notify the shift supervisor.
- 6.1.23 When the MFHT or SBS receiver tank level has reached the limit designated by the work order test plan, close utility air supply valve. This shuts down the pump.

If the work order, shift supervisor, or test plan specify the transfer line is to be flushed with demineralized water, complete steps 6.1.24 through 6.1.30. If not, go to step 6.1.31.
- 6.1.24 Place a stainless steel drum at the west side of the pit outside the handrail.
- 6.1.25 Fill the stainless steel drum with the amount of demin. water specified.
- 6.1.26 Remove the pump suction line from the SBS receiver nozzle "K".
- 6.1.27 Place the pump suction line in the stainless steel drum filled with demin. water.
- 6.1.28 Open the air supply valve to start the pump.
- 6.1.29 When the stainless steel drum is empty, close the air valve.

- 6.1.30 Remove the pump suction line from the stainless steel drum. Proceed to step 6.1.32.
- 6.1.31 Remove the transfer hose from the SBS receiver nozzle "K".
- 6.1.32 Remove the transfer hose from the MFHT nozzle.
- 6.1.33 Disconnect the transfer hoses from the pump and stow.
- 6.1.34 Close the air supply valves at the pump.
- 6.1.35 Disconnect the air supply line from the pump and store line and pump.
- 6.1.36 Obtain the Melter Feed Hold Tank (MFHT) 63-V-11 level.
 - a. If the MFHT agitator is on, turn it off and tag per Standing Instruction 005.
 - b. Remove MFHT port "C" cover.
 - c. Insert the wooden stick marked in inches into the MFHT.
 - d. Remove the stick and replace the MFHT port "C" cover. Note the inches on the stick.
 - e. Untag per Standing Instruction 005 and turn on the MFHT agitator, if there is sufficient solution/slurry.
- 6.1.37 Obtain the SBS Receiver level by:
 - a. Remove nozzle "W" or "G" cover.

- b. Insert the wooden stick marked in inches, into the receiver.
- c. Remove the wooden stick and note the inches on the stick.
- d. Replace nozzle "W" or "G" cover.
- e. Using the calibration chart for the receiver convert inches to gallons.

- [+] 6.1.38 Record the MFHT and SBS receiver levels in the Vitrification Tank Level Log Book, and in the CTS Operations Log Book.
- [+] 6.1.39 Notify the shift supervisor that the transfer is complete.

6.2 Solution Transfers from the SBS Receiver to the East Temporary Cold
Chemical Feed Makeup Tank 65-D-01

[+] 6.2.1 Verify the transfer with the shift supervisor.

6.2.2 Obtain the SBS Receiver level by:

a. Remove nozzle "W" or "G" cover.

b. Insert the wooden stick marked in inches, into the receiver.

c. Remove the wooden stick and note the inches on the stick.

d. Replace nozzle "W" or "G" cover.

e. Using the calibration chart for the receiver convert inches to gallons.

6.2.3 Obtain the east tank level by shining a flash light at the side of the tank. You will be able to see the level of the slurry of solution. Note the gallon marker on the side of the tank that corresponds to the level.

[+] 6.2.4 Verify the east tank has the void capacity to hold the amount of solution/slurry to be transferred. Compare the levels obtained in steps 6.2.2 and 6.2.3 with the levels last recorded in the Vitrification Tank Level Log Book. If there is a large discrepancy between the levels, contact the shift supervisor.

Void Capacity = .90 (Total Capacity) - Present Volume

- 6.2.5 Check with the shift supervisor or cognizant engineer to see if samples of either tank contents is required before the transfer. If required, take the sample, label, and log in Sample Log Book.
- 6.2.6 Place a stainless steel diaphragm pump close to the SBS. (The 3" inch stainless wilden is the quickest pump to use) The placement of the pump is up to the discretion of the operator performing the transfer.
- 6.2.7 Connect a two inch chemical transfer hose and secure with KAMLOK fittings from the pump inlet to the SBS receiver dip leg nozzle "K".
- 6.2.8 Connect a air supply line via snap tight connections between the utility air supply or instrument air supply from any utility drop in the CTS, to the pump.
- 6.2.9 Check that the utility air supply or instrument air valve at the pump inlet is closed.
- 6.2.10 Check the utility air oiler for sufficient oil level. If oil is low, add killfrost oil to bowl. Oil should feed approximately one drop per minute.
- 6.2.11 If air supply has a trap in line follow steps 6.2.12 to 6.2.16, If not continue at step 6.2.17.
- 6.2.12 Open air supply valve, secondary supply valve after air dryer should be closed.
- 6.2.13 Open the petcock at the bottom of the trap at the CTS utility drop station.

- 6.2.14 Open air supply valve and drain any condensate from the trap.
- 6.2.15 Close the trap petcock.
- 6.2.16 Close utility air valve.
- 6.2.17 Obtain a two inch chemical transfer hose of sufficient length to reach from the discharge side of the pump to the "T" connection in the 11K-TCCFMUB transfer line located above and behind instrument racks 1C and 5 in the north aisle 100-foot level.
- 6.2.18 Check that ball valve T65-HV-115 is closed so as to isolate the "T" from the transfer line to the 11,000-Gallon Tank 63-D-18.
- 6.2.19 Remove the cap from the "T" connection and connect and tie wrap one end of the 2-inch chemical transfer hose to the "T" connection.
- 6.2.20 Check that ball valve T65-HV-114 on the east end of "T" is closed.
- 6.2.21 Open ball valve T65-HV-114 at end of "T".
- 6.2.22 In garage, check that valves T65-HV-111, T65-HV-113, T65-HV-110, T65-HV-109, T65-HV-107, and T65-HV-108 are closed.
- 6.2.23 Disconnect 11K-TCCFMUB line from discharge side of sandpiper pump T65-G-02. Cap off open line coming from the pump.

- 6.2.24 Disconnect the recirculation line coming from the discharge side of the sandpiper pump T65-G-02. Cap off open line on the pump side.
- 6.2.25 Connect the recirculation line and the 11K-TCCFMUB line together. Tie wrap connections.
- 6.2.26 Open ball valve T65-HV-107 to east tank.
- 6.2.27 Open air supply valve at utility drop station.
- 6.2.28 Open air supply valve at pump and regulate for smooth pumping.
- 6.2.29 When receiver level or east mix tank is at the proper level shut off the air to the pump.

If the work order, shift supervisor, or test plan specify the transfer line is to be flushed with demineralized water, complete steps 6.2.30 through 6.2.34. If not, go to step 6.2.35.

- 6.2.30 Obtain a stainless drum and place it next to the pump. Fill the drum with demin H₂O using a hose from the drum to any demin station in the CTS.
- 6.2.31 Disconnect the suction end of the line from nozzle "K" and put the end in the stainless drum.
- 6.2.32 Open air supply to the pump and pump H₂O from the stainless drum to the east mix tank.

- 6.2.33 When the drum is empty, let the pump run for several seconds to clear line of H₂O, then turn air to the pump off.
- 6.2.34 Remove the transfer line from the stainless tank.
- 6.2.35 Close ball valve at "T" between I.R. 1C and 5.
- 6.2.36 Close valve T65-HV-107 at the east mix tank.
- 6.2.37 Disconnect recirculation line from 11K-TCCFMUB line in the garage and connect the recirculation line back to the discharge recirculation line on the sandpiper pump T65-G-02. Watch for liquid spilling from lines when you disconnect them.
- 6.2.38 Connect the 11K-TCCFMUB line to the discharge side of the sandpiper pump T65-G-02.
- 6.2.39 Disconnect two inch lines from suction and discharge side of the pump. Watch for liquid spilling from pump and disconnected lines.
- 6.2.40 Disconnect the two inch line from the "T" between the I.R. 1C and 5. Store the lines and the pump in the proper storage area.
- [+] 6.2.41 If necessary obtain a level of the SBS receiver by using a wooden level indicator. Record the level in the Vitrification Tank Level Log, and in the CTS Operations Log Book.

- [+] 6.2.42 Obtain a level of the east mix tank by the level indicator on the side of the tank. Record the level in the Vitrification Tank Level Log, and in the CTS Operations Log Book.
- 6.2.43 Make sure the cover on the east mix tank is down.
- [+] 6.2.44 Notify the shift supervisor that the transfer is complete.

6.3 Solution Transfers from the SBS Receiver to the West Temporary Cold
Chemical Feed Makeup Tank 65-D-02

[+] 6.3.1 Verify the transfer with the shift supervisor.

6.3.2 Obtain the SBS Receiver level by:

a. Remove nozzle "G" or "W" cover.

b. Insert the wooden stick marked in inches, into the receiver.

c. Remove the wooden stick and note the inches, on the stick.

d. Replace nozzle "G" or "W" cover.

e. Using the calibration chart for the receiver, convert inches to gallons.

6.3.3 Obtain the west tank level by shining a flash light at the side of the tank. You will be able to see the level of the slurry of solution. Note the gallon marker on the side of the tank that corresponds to the level.

[+] 6.3.4 Verify the west tank has the void capacity to hold the amount of solution/slurry to be transferred. Compare the levels obtained in steps 6.3.2 and 6.3.3 with the levels last recorded in the Vitrification Tank Level Log Book. If there is a large discrepancy between the levels, contact the shift supervisor.

Void Capacity = .90 (Total Capacity) - Present Volume

- 6.3.5 Check with the shift supervisor or cognizant engineer to see if samples of either tank contents is required before the transfer. If required, take the sample, and label, and record in sample log.
- 6.3.6 Place a stainless steel diaphragm pump close to the SBS, (the 2-inch stainless wilden is the quickest pump to use). The placement of the pump is up to the discretion of the operator performing the transfer.
- 6.3.7 Connect a 2-inch chemical transfer hose and secure with KAMLOK fittings from the pump inlet to the SBS receiver dip leg nozzle "K".
- 6.3.8 Connect a air supply line via snap tight connections between the utility air supply or instrument air supply from any utility drop in the CTS, to the pump.
- 6.3.9 Verify the air supply at the pump inlet is closed.
- 6.3.10 Check the utility air oiler for sufficient oil level. If oil is low, add killfrost oil to bowl. Oil should feed approximately one drop per minute.
- 6.3.11 If air supply has a dryer in line, follow steps 6.3.12 to 6.3.16. If not continue at step 6.3.17
- 6.3.12 Open air supply valve. Secondary supply valve after the air dryer should be closed.
- 6.3.13 Open the petcock at the bottom of the air dryer at the CTS utility drop station.

- 6.3.14 Open air supply valve and drain any condensate from the air dryer.
- 6.3.15 Close the air dryer petcock.
- 6.3.16 Close utility air valve.
- 6.3.17 Obtain a two inch chemical transfer hose of sufficient length to reach from the discharge side of the pump to the "T" connection in the 11K-TCCFMUB transfer line located above and behind instrument racks 1C and 5 in the north aisle 100-foot level.
- 6.3.18 Check that ball valve T65-HV-114 is closed so as to isolate the "T" from the transfer line to the 11,000-gallon Tank 63-D-18.
- 6.3.19 Remove the cap from the "T" connection and connect and tie wrap one end of the two-inch chemical transfer hose to the "T" connection.
- 6.3.20 Check that the ball valve T65-HV-115 on the west end of "T" is closed.
- 6.3.21 Open ball valve T65-HV-114 at end of "T".
- 6.3.22 In garage, verify valves: T65-HV-111, T65-HV-113, T65-HV-110, T65-HV-109, T65-HV-107, and T65-HV-108 are closed.
- 6.3.23 Disconnect 11K-TCCFMUB line from discharge side of sandpiper pump T65-G-02. Cap off open line coming from the pump.

- 6.3.24 Disconnect the recirculation line coming from the discharge side of the sandpiper pump T65-G-02. Cap off open line on the pump side.
- 6.3.25 Connect the recirculation line and the 11K-TCCFMUB line together. Tie wrap connections.
- 6.3.26 Open ball valve T65-HV-108 to east tank.
- 6.3.27 Regulate the air supply valve at pump to achieve smooth pumping action.
- 6.3.28 When receiver level or west mix tank is at the proper level shut off the air to the pump.

If the work order, shift supervisor, or test plan specify the transfer line is to be flushed with demineralized water, complete steps 6.3.29 through 6.3.33. If not, go to step 6.3.34.

- 6.3.29 Obtain a stainless drum and place it next to the pump. Fill the drum with demin H₂O using a hose from the drum to any demin station in the CTS.
- 6.3.30 Take the suction end of the line out of nozzle "K" and put the end in the stainless drum.
- 6.3.31 Open air supply to the pump and pump H₂O from the stainless drum to the west mix tank.
- 6.3.32 When the drum is empty, let the pump run for several seconds to clear line of H₂O, then turn air to the pump off.

- 6.3.33 Remove the transfer line from the stainless tank.
- 6.3.34 Close ball valve at "T" between I.R. 1C and 5.
- 6.3.35 Close valve T65-HV-108 at the west mix tank.
- 6.3.36 Disconnect recirculation line from 11K-TCCFMUB line in the garage and connect the recirculation line back to the discharge recirculation line on the sandpiper pump T65-G-02. Watch for liquid spilling from lines when you disconnect them.
- 6.3.37 Connect the 11K-TCCFMUB line to the discharge side of the sandpiper pump T65-G-02.
- 6.3.38 Disconnect two inch lines from suction and discharge side of the pump. Watch for liquid spilling from pump and disconnected lines.
- 6.3.39 Disconnect the two inch line from the "T" between the I.R. 1C and 5. Store the lines and the pump in the proper storage area.
- [+] 6.3.40 If necessary obtain a level of the SBS receiver by using a wooden level indicator. Record the level in the Vitrification Tank Level Log, and in the Vitrification Operations Log Book.
- [+] 6.3.41 Obtain a level of the west mix tank by the level indicator on the side of the tank. Record the level in the Vitrification Tank Level Log, and in the Vitrification Operations Log Book.

6.3.42 Make sure the cover on the west mix tank is down.

[+] 6.3.43 Notify the shift supervisor that the transfer is complete.

6.4 Solution Transfer from the SBS Receiver to the 11K Tank 63D-18

- [+] 6.4.1 Verify transfer with the shift supervisor and/or work order.
- 6.4.2 Obtain the 11K tank level by turning off the 11K agitator tag per Standing Instruction 005 and inserting the wooden stick marked in inches into the tank. Then, using the 11K calibration chart convert the inches to gallons. Untag per Standing Instruction 005 and turn on the 11K agitator, if it contains sufficient solution/slurry.
- 6.4.3 Obtain the SBS receiver level by removing nozzle "G" connector. Insert the wooden stick marked in inches, into the receiver. Remove the stick and note the inches on the stick. Replace the connector on nozzle "G". Using the calibration chart for the receiver, convert inches to gallons.
- [+] 6.4.4 Verify the 11K tank has the void capacity to hold the amount of solution/slurry to be transferred. Compare the levels obtained in steps 6.4.2 and 6.4.3 with the levels last recorded in the vitrification tank level log book. If there is a large discrepancy between the levels, contact the shift supervisor.

Void Capacity = .90 (Total Capacity) - Present Volume

- 6.4.5 Check with the shift supervisor or cognizant engineer to see if samples of either tank contents is required before the transfer. If required, take the sample, label, and record in Sample Log.

- 6.4.6 Place a stainless steel diaphragm pump near the north/west utility drop station, close to the SVS area. (The 3-inch stainless wilden pump is the quickest pump to use.)
- 6.4.7 Connect a air supply line via snap tight connections between the utility air supply or instrument air supply from any utility drop in the CTS, to the pump.
- 6.4.8 Check that the air supply at the pump inlet is closed.
- 6.4.9 Check the utility air oiler for sufficient oil level. If oil is low, add killfrost oil to bowl. Oil should feed approximately one drop per minute.
- 6.4.10 If air supply has a dryer in line, follow steps 6.4.11 to 6.4.15. If not, continue at step 6.4.16
- 6.4.11 Open air supply valve. The secondary supply valve after the air dryer should be closed.
- 6.4.12 Open the petcock at the bottom of the air dryer at the CTS utility drop station.
- 6.4.13 Open air supply valve and drain any condensate from the air dryer.
- 6.4.14 Close the air dryer petcock.
- 6.4.15 Close utility air valve.
- 6.4.16 Obtain a 2-inch line with enough length to reach nozzle "K" on the SBS to the suction side of the pump, and another 2-inch line with enough length to reach from the discharge side of the pump to the trap door at the top of the 11K tank.

- 6.4.17 Tie wrap all KAMLOK connections and tie off the end of the line at the top of the 11K tank so the line is stable.
- 6.4.18 Open air supply valve at the pump and at utility drop station, and regulate for smooth pumping.
- 6.4.19 Check and make sure that receiver liquid is transferring to the 11K tank. Also check the lines and make sure there are no leaks. The 11K tank level can be observed at micon 1 loop 4 or input 1.
- 6.4.20 When the receiver and/or 11K tank is at the level specified by the work order or shift supervisor, turn off air to the pump.

If the work order, shift supervisor, or test plan specify the transfer line is to be flushed with demineralized water, complete steps 6.4.21 through 6.4.25. If not, go to step 6.4.26

- 6.4.21 Obtain a stainless drum and place it next to the pump. Fill the drum with demin H₂O using a hose from the drum to any demin station in the CTS.
- 6.4.22 Disconnect the suction end of the line from of nozzle "K" and put the end in the stainless drum.
- 6.4.23 Open air supply to the pump and pump H₂O from the stainless drum to the 11K tank.
- 6.4.24 When the drum is empty, let the pump run for several seconds to clear line of H₂O, then turn air to the pump off.

- 6.4.25 Remove the transfer line from the stainless tank.
- 6.4.26 Disconnect lines from the pump and the 11K tank and store in proper place. Watch when disconnecting the lines from the pump, liquid may still be in the lines.
- 6.4.27 Store pump in proper area.
- [+] 6.4.28 Obtain a level of the SBS receiver by using the wooden dip stick, through nozzle "G" or "W" on the SBS, record level in the Vitrification Tank Level Log Book, and in the CTS Operations Log Book.
- [+] 6.4.29 Obtain a level of the 11K tank by using the wooden dip stick, record the level in the Vitrification Tank Level Log Book, and in the CTS Operations Log Book.
- [+] 6.4.30 Notify shift supervisor that the transfer is complete.