Bypassing SESP Laboratory D.I. Water System
Beckman Coulter and Siemens Systems

Technical Service Procedure 3485

Prepared By	Date Adopted	Supersedes Procedure #
M. Inn	04/25/2012	New

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			06/08/2012	G. Kost

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Beckman Coulter and Siemens Systems

Technical Service Procedure 3485

For *In Vitro* Diagnostic Use Only

Purpose

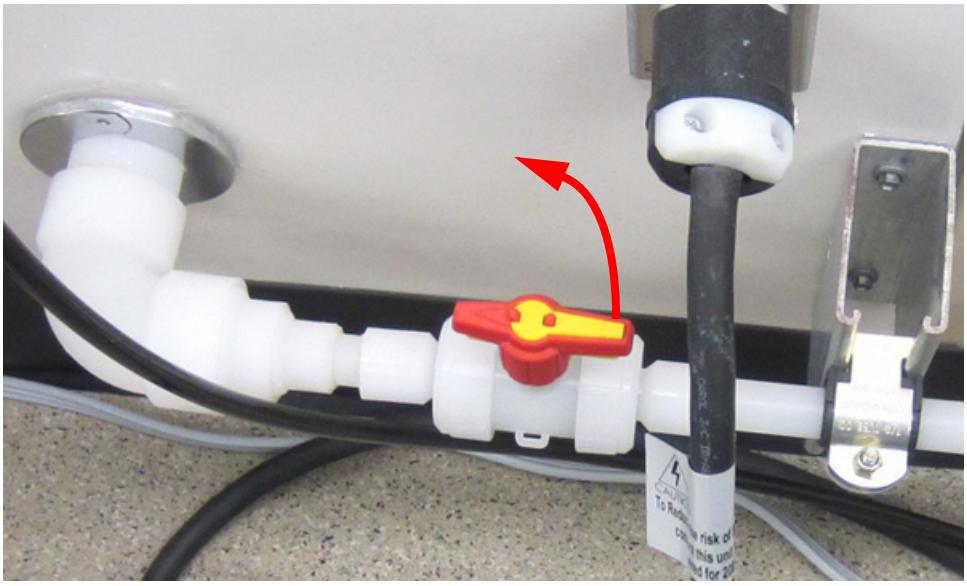
Intended Use

This procedure is to be used when the SESP laboratory D.I. water system is down for maintenance, repairs or because of system failure for extended periods of time. Instructions will detail how to disconnect the laboratory D.I. water system from the Beckman Coulter DxC800 chemistry analyzer and the Siemens ADVIA Centaur XP immunoanalyzer. The supervisor on duty will refer to and implement the Pavilion Department Emergency Water Plan procedure 260A. The Specialist should be contacted if available to review this bypass procedure. The procedure is technical and not everyone will be trained to perform this procedure. (see list of trained personnel) The cubes of emergency water is stored in the high density storage room.

Procedure

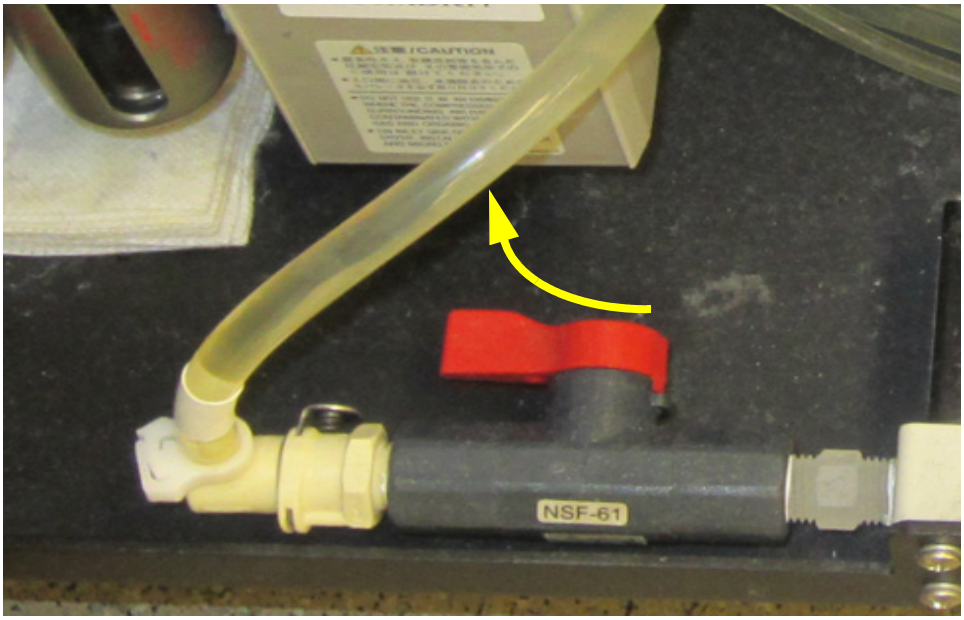
DxC800 Chemistry Analyzer D.I. water bypass procedure

1. Turn off main D.I. water shutoff valve located on the column behind DxC#s 2 and 3. The valve is off when the red handle is pointing perpendicular to the D.I. water pipe.



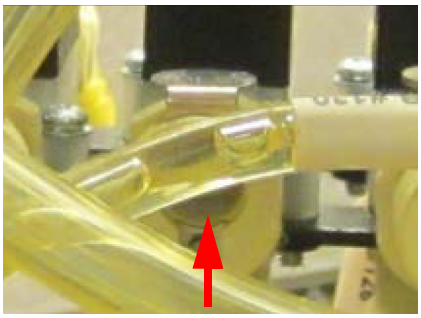
2. Select which DxC800 analyzer to bypass and with the system in Standby, confirm that the analyzer is in manual mode.
3. With the analyzer in Standby, put the analyzer into Hydro Shutdown to prevent the system from priming or running during this bypass procedure.
   a. From the Main screen on the DxC console, click on the Utilities icon.
   b. Select/click on Maintenance
   c. In the Maintenance Menu, select/click on Hydropneumatic Maintenance.

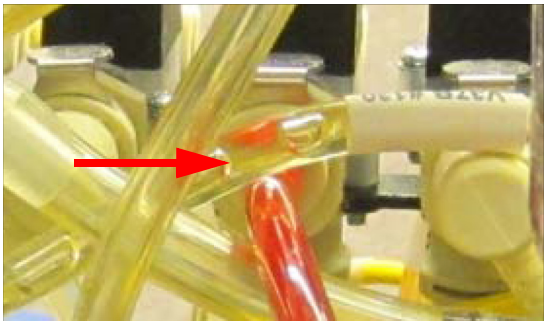
4. Temporarily shut off the analyzer D.I. water valve.

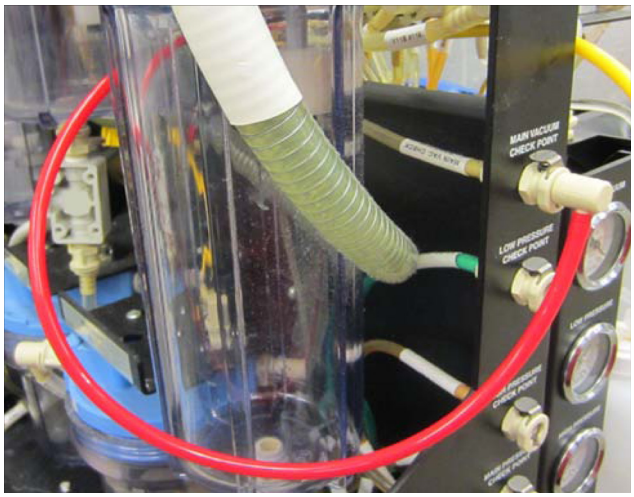


5. Using the red bypass tubing, with the quick disconnect fittings on both ends, plug one end into the Main Vacuum Check Point female connector.

6. The other will plug into the backside of valve V3. The existing tubing connected there must be disconnected first. Locate Valve V3 on the right side of the Hydro. On the left side of the Hydro, locate the backside of the V3 valve and disconnect the tubing with the quick disconnect fitting. Connect the other end of the red bypass tubing into this female connector..

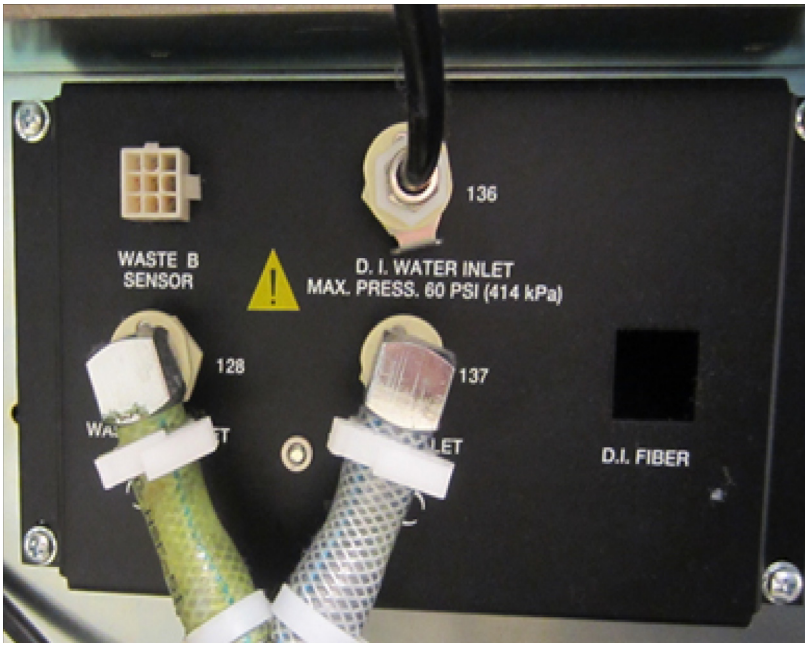






7. Empty the D.I. Water Canister and D.I Water Reservoir. You may need to remove the canister holder because the length of the float switch will prevent you from removing the canister. Loosen canister from lid first with canister wrench then loosen the 4 mounting screws.

8. Turn the analyzer D.I. water shut off valve back on.
9. Go to the back of the analyzer and locate the D.I. water inlet. Disconnect the system D.I. water line and with the other red D.I. water bypass tubing that has one quick disconnect fitting on one end, connect this tubing to the analyzer D.I. water inlet. The other end of the tubing will go into the emergency D.I. water container.



10. Exit Hydropneumatic Maintenance.
11. Water Canister should start to fill then the Water Reservoir should then fill.
12. Prime DxC system 10 times.
13. Calibrate any chemistries as required.
14. Run all controls.
15. To return to normal operations, follow the steps back for direct water connection.
    a. With the system in Standby, confirm that the analyzer is in manual mode and paused in PrepLink.
    b. Put the analyzer into Hydro Shutdown to prevent the system from priming or running.
    c. Temporarily shut off the analyzer D.I. water valve in Hydro.
    d. Disconnect the red D.I. water bypass tubing from the back of the DxC and reconnect the system D.I. water line to the inlet.
    e. Empty the D.I. Water Canister and D.I Water Reservoir.
    f. Disconnect the short red bypass tubing in the Hydro.
    g. Reconnect the existing tubing to the back of the V3 valve.
    h. Turn on the analyzer D.I. water valve in the Hydro.
    i. Turn on the main D.I. water shutoff valve located on the column behind DxC#s 2 and 3.
    j. Exit Hydropneumatic Maintenance.
    k. Water Canister should start to fill then the Water Reservoir should then fill.
    l. \Prime DxC system 10 times.
    m. Analyzer can be put back in automation mode in PrepLink.
    n. Calibrate any chemistries as required.
    o. Run all controls.

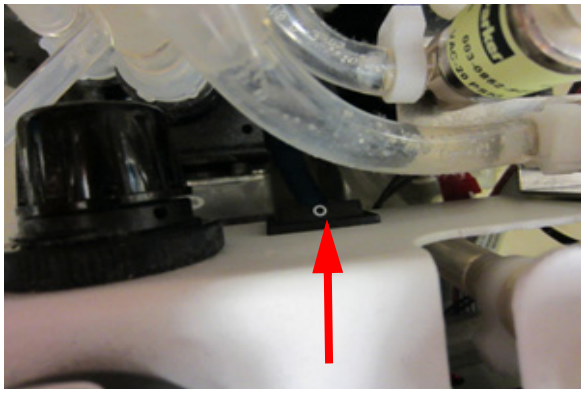
Siemens ADVIA Centaur XP D.I. water direct connect to water bottle procedure

1. Pause automation loading to either Centaur CNXP3 or CNXP4.
2. Turn off shut off valve for D.I. water for the Centaur switching to emergency water. Each Centaur has its own valve (labeled) and are located on the floor between track and glass door refrigerator.

3. When the immunoanalyzer returns to Ready mode, turn off system mechanics.
4. Empty D.I. water reservoir.
5. Remove cap and fill Centaur water bottle and re-cap.

6. Open the water bottle lid and load water bottle onto Centaur. Attach water fitting to bottle.

7. Flip the Direct Connect switch to off.



8. Turn on system mechanics.
9. Check to make sure the D.I. water reservoir is refilling with water from the Centaur water bottle. If not, verify that the water reservoir glass sensors are dry.
10. Calibrate if necessary and run all controls before running patients.
11. To return to normal operations, follow the steps back for direct water connection.
    a. Pause automation loading to Centaur in PrepLink.
    b. When the immunoanalyzer returns to Ready mode, turn off system mechanics.
    c. Empty D.I. water reservoir.
    d. Turn on shut off valve for D.I. water for the Centaur
    e. Flip the Direct Connect switch to on.
    f. Turn on system mechanics.
    g. Check to make sure the D.I. water reservoir is refilling.
    h. Calibrate if necessary and run all controls before running patients.

DxC800 Water Bypass Training List	Date	Centaur XP Water BottleTraining List	Date
Cathy Ziaja	05/01/2012	Cathy Ziaja	05/01/2012
Jennifer Schnabel	05/01/2012	Jennifer Schnabel	05/01/2012
Pam Seid	05/02/2012	Pam Seid	05/02/2012
Navdeep Kaur	05/02/2012	Navdeep Kaur	05/02/2012
Katie Zegarski	05/03/2012	Katie Zegarski	05/03/2012
Jamey Stillson	05/03/2012	Jamey Stillson	05/03/2012
Brandon Thomas	05/04/2012	Brandon Thomas	05/04/2012