

DXC 800 MID-WEEK MAINTENANCE

St. Joseph Medical Center Tacoma, WA St. Clare Hospital Lakewood, WA St. Elizabeth Hospital Enumclaw, WA
 St. Francis Hospital Federal Way, WA St. Anthony Hospital Gig Harbor, WA Highline Medical Center Burien, WA PSC

PURPOSE

To provide instruction for performing mid week maintenance on the DXC800 analyzers.

BACKGROUND

Mid week maintenance is done on the DXCs with the Weekly Maintenance and once more mid-week, dependent on staffing and workload, but not less than twice a week. Maintenance may be performed more often if required.

INSTRUCTIONS

1. Pause loading to the DXC using the Prelink Instrument Loading screen.
2. Change instrument mode to Manual using the Prelink Instrument Mode screen.
3. Press STOP BUTTON and wait for DXC to reach STOPPED status. The alarm will sound on the connector if it is not in Manual Mode. Silence alarm and press pause/run to clear the error, after the instrument has been STOPPED.
4. Remove and wash all plastic covers. DO NOT use anything other than mild soap and hot water.
5. Wipe all probes and mixers with alcohol pads, one for each, include wash tower.
6. Unscrew the wash tower captive screws and change the blue wiper. Check to insure it is seated flush and squarely to the cuvettes.
7. Return wash tower to position and replace all plastic covers.
8. From Instrument Command, HOME the DXC.
9. From utilities, choose maintenance, cup maintenance, and choose TP, CRE and ALB.
10. Select Rinse, do not close Result window.
11. Add 1 ml HCL to TP and CRE cup, 1ml 10% Cleaning Solution to ALB cup.
12. Wait 10 minutes, Press Close.
13. Choose Rinse, then Drain
14. Check stir bars for TP, CRE and ALB at this time and clean or change as needed.
15. Prime reagent 20 times back into TP, CRE and ALB cups (Remember to calibrate TP, CRE and ALB at the end of maintenance)

16. Observe DXC for dirty /leaking syringes, other leaks, stir bar problems, etc. Take appropriate action if indicated.
17. Clean ISE Flow cell cup and probes.
Prepare a rack (Rack 999) and fill the 2 ml cups as follows:
Cup 1: Leave empty (no cup)
Cup 2: Saline
Cup 3: Spectrum Bleach
Cup 4: 2ml serum (Please use either Synchron 1 or 2)
18. From Utilities, select 2-Maintenance, 10-Clean Flow Cell, Cups& CC Probes/Mixers. Disregard the selections in the left hand column. Under the first tab, Enter Rack number 999, disregard Cup 1. Press Start. Do not close window while this rack is running (about 30 minutes). When maintenance complete, select Close, Close. At this point, the Maintenance log is presented for tech to initial and date as maintenance completed. Enter Initials and Date, OK, Done, Exit.
19. Immediately after running Rack 999, Prime ISE 20 times. (Do not let instrument sit idle after running Rack 999 due to possible adverse effects.) Choose Utilities, Prime, F4 - MC, ISE ALL, #primes=20, Start prime.
20. After this procedure, look at the ISE flow cell. If there is still a gray build up, a further cleaning procedure may be necessary. See as needed procedures for ISE flow cell cleaning. Change electrodes if needed, only if the ISE is clean.
21. Restock and replace all reagents as needed.
22. Calibrate ALL MC Chemistries and others as needed.
23. Return DXC to Automation mode. Unpause from the line using the Prelink, when calibration(s) and QC have been completed.
24. Check off maintenance for your shift on the log sheet in book.

PROCEDURAL NOTES

- First determine what maintenance needs to be done and on what DXC800.
- Check for leaks, “dirty” syringe plungers
- Look for rusty material inside the syringes, dirty plungers and anything else out of the ordinary. Any of these findings could necessitate changing the plunger or the whole syringe.
- Check the ISE to make sure it doesn’t look dirty. A gray-green material in the upper part of the ISE flow cell may necessitate extra cleaning; flushing of the flow cell.

REFERENCE

Beckman Coulter, IFU Manual Unicel@DXC600/DXC800 2004

DOCUMENT APPROVAL Purpose of Document / Reason for Change:

7/24/15-Change in ISE cleaning procedure, #17, 18, 19.

Committee Approval Date	<input type="checkbox"/> Date: <input checked="" type="checkbox"/> NA – revision of department-specific document which is used at only one facility	Medical Director Approval <i>(Electronic Signature)</i>	<i>Katie Wilkinson, MD</i> 8/25/15
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