

## **AU5800 Every Other Week or Every 3,000 Samples** **(ISE) Maintenance**

Step	Action
1	Perform the <b>Manually Clean the ISE Mix Bar, Liquid Level Sensors, Sample Pot and Sample Pot Tubing</b> procedure

## **AU5800 Weekly (Analyzer and ISE) Maintenance**

Step	Action
1	Perform the <b>W2, Photocal and Enhanced Cleaning of the ISE Electrode Line</b> (optional module) procedure
2	<b>View the Photocal</b> results
3	Perform the <b>Check the Selectivity of the Na/K Electrodes</b> procedure
4	Perform the <b>Clean the Sample Probe and Mix Bars</b> procedure
5	Perform the <b>Clean the Pre-dilution Bottles</b> procedure

### **For Training Purposes Only**

These job aids are shortened versions of the procedures found in the source below. The procedures are listed in the order to perform in the most efficient manner. Where it is possible, procedures have been combined for efficiency. The optional ISE module has references for two flow cells. Information in the job aid is correct as of the date published. Verify you have the correct information.

Source: AU5800<sup>®</sup> Chemistry Analyzer User's Guide PN A98352AB (October 2012)

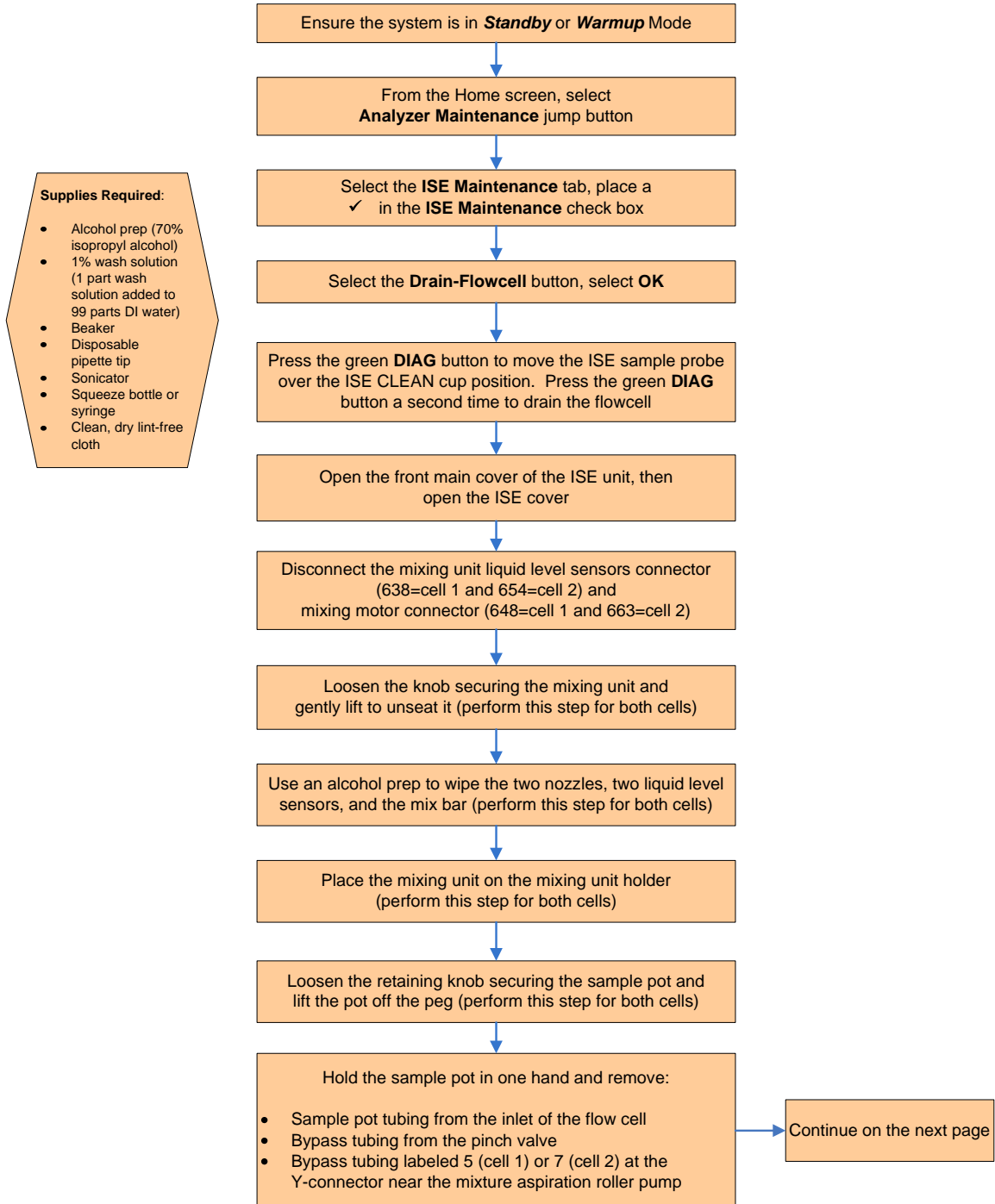
## Document Disclaimers

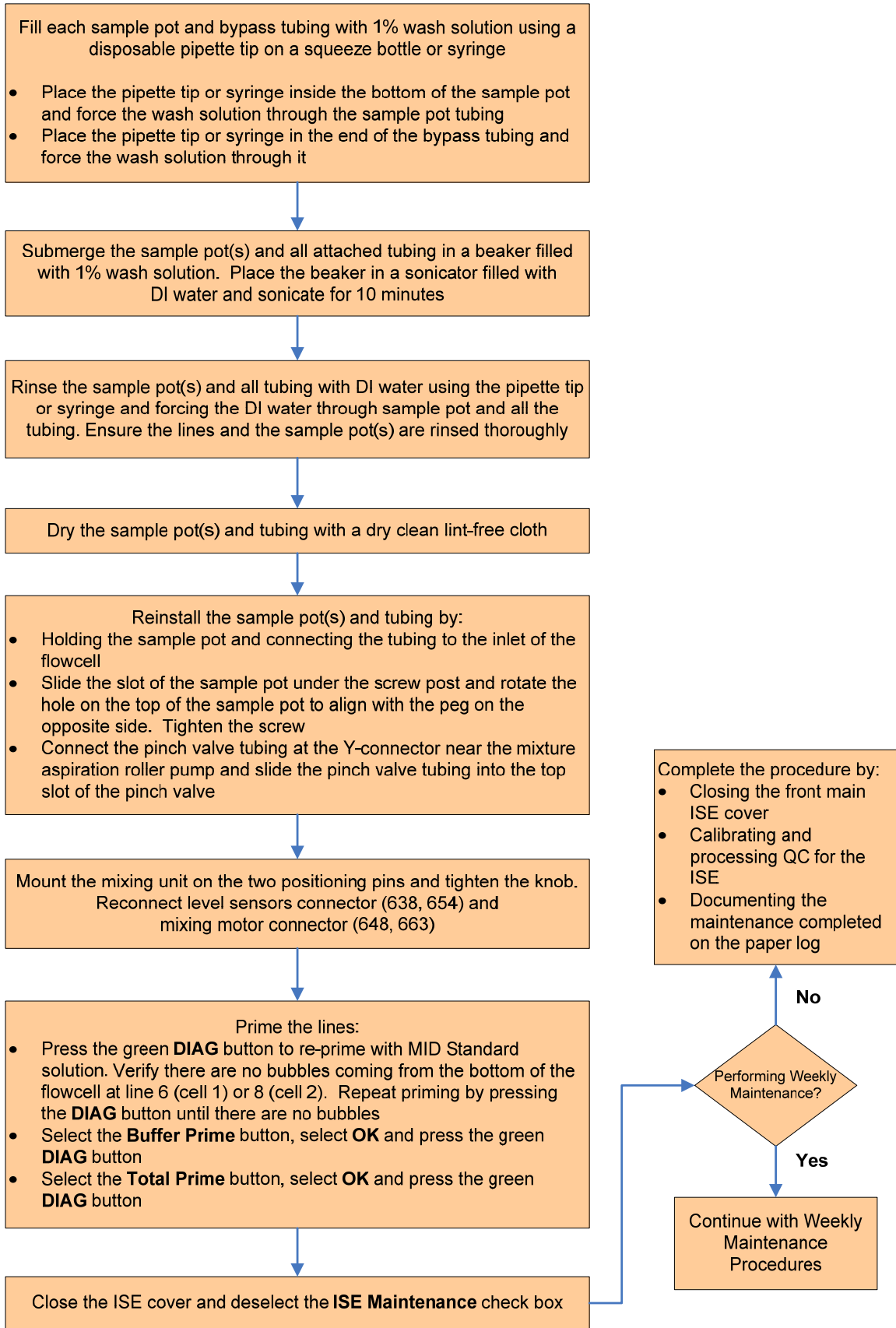
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<b>Revision Status</b>	Rev. A (April 2013) Software version 4.11
<b>Trademarks</b>	AU5800® Chemistry Analyzer

# Every Other Week or Every 3,000 Sample ISE Maintenance

## Manually Clean the ISE Mix Bar, Liquid Level Sensors, Sample Pot and Sample Pot Tubing



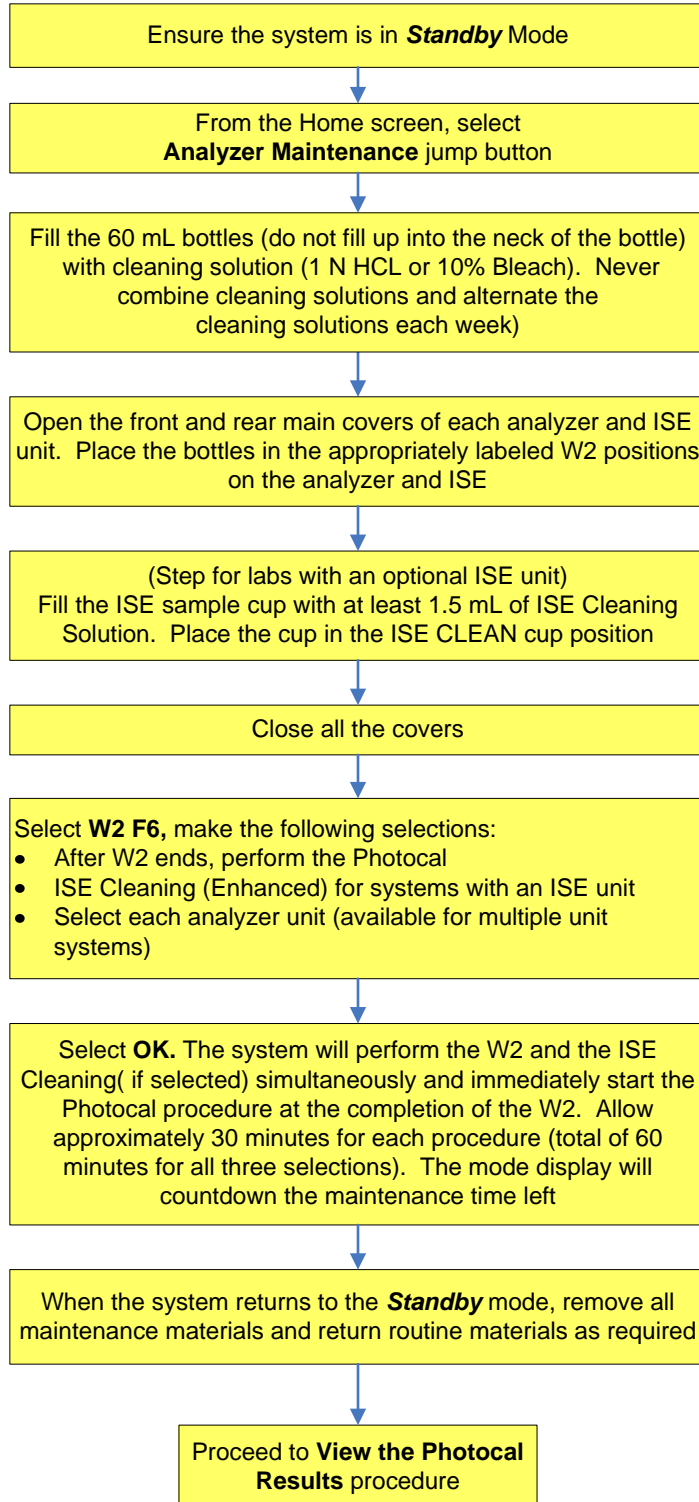


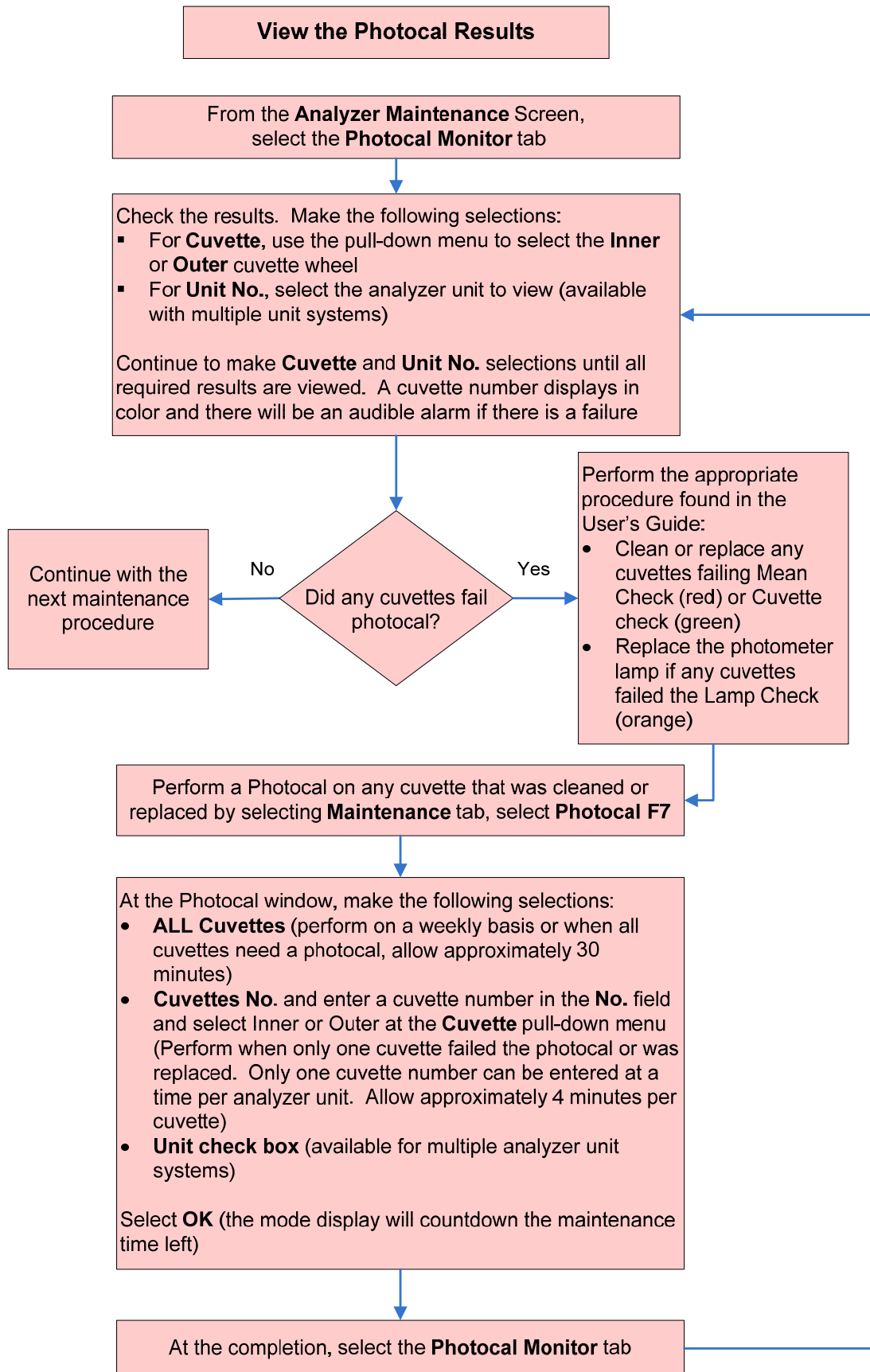
## Weekly Analyzer and ISE Maintenance

### W2, Photocal and Enhanced Cleaning of the ISE Electrode Line (optional unit)

#### Supplies Required:

- 60 mL reagent bottles
  - 6 per analyzer unit
  - 1 for the ISE unit
- Cleaning Solution: 1 N HCL or 10% Bleach (Beckman Sodium Hypochlorite (5%) diluted 1:10. Prepare by adding 10 parts bleach to 90 parts DI water)
- ISE Cleaning Solution (optional ISE unit)
- 1 ISE sample cup (optional ISE unit)





## Check the Selectivity of the Na/K Electrodes (optional module)

- Supplies Required:**
- ISE Na and K Selectivity Check Solutions
  - 2 ISE sample cups

Ensure the system is in **Standby** or **Warmup** Mode

Fill the cups with at least 500  $\mu$ L of Na and K Selectivity Check solutions

Open the front main cover of the ISE unit and place the cups in the SEL-Na and SEL-K positions. Close the front main cover of the ISE unit

From the Home screen, select **Analyzer Maintenance** jump button, select **ISE Maintenance** button

Select **Selectivity Check** tab, select **Check Start**, make selections for Cell 1 and/or Cell 2, select **OK**

When the procedure completes, check the results

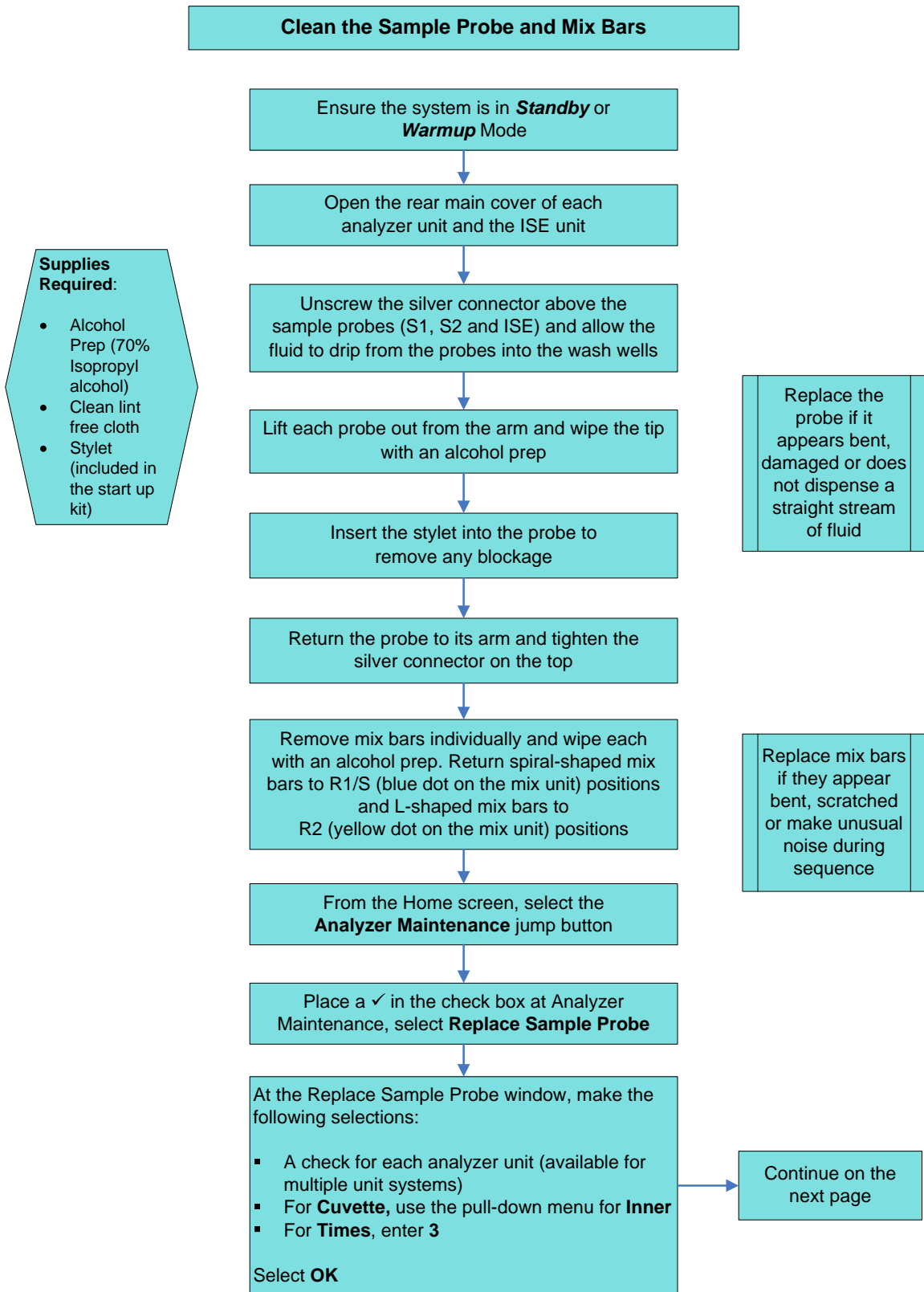
Failures will be displayed in yellow.

From the ISE Maintenance screen, select the **Maintenance** tab, place a ✓ in the **ISE Maintenance** box, select the **MID/REF Prime** button, select **OK**

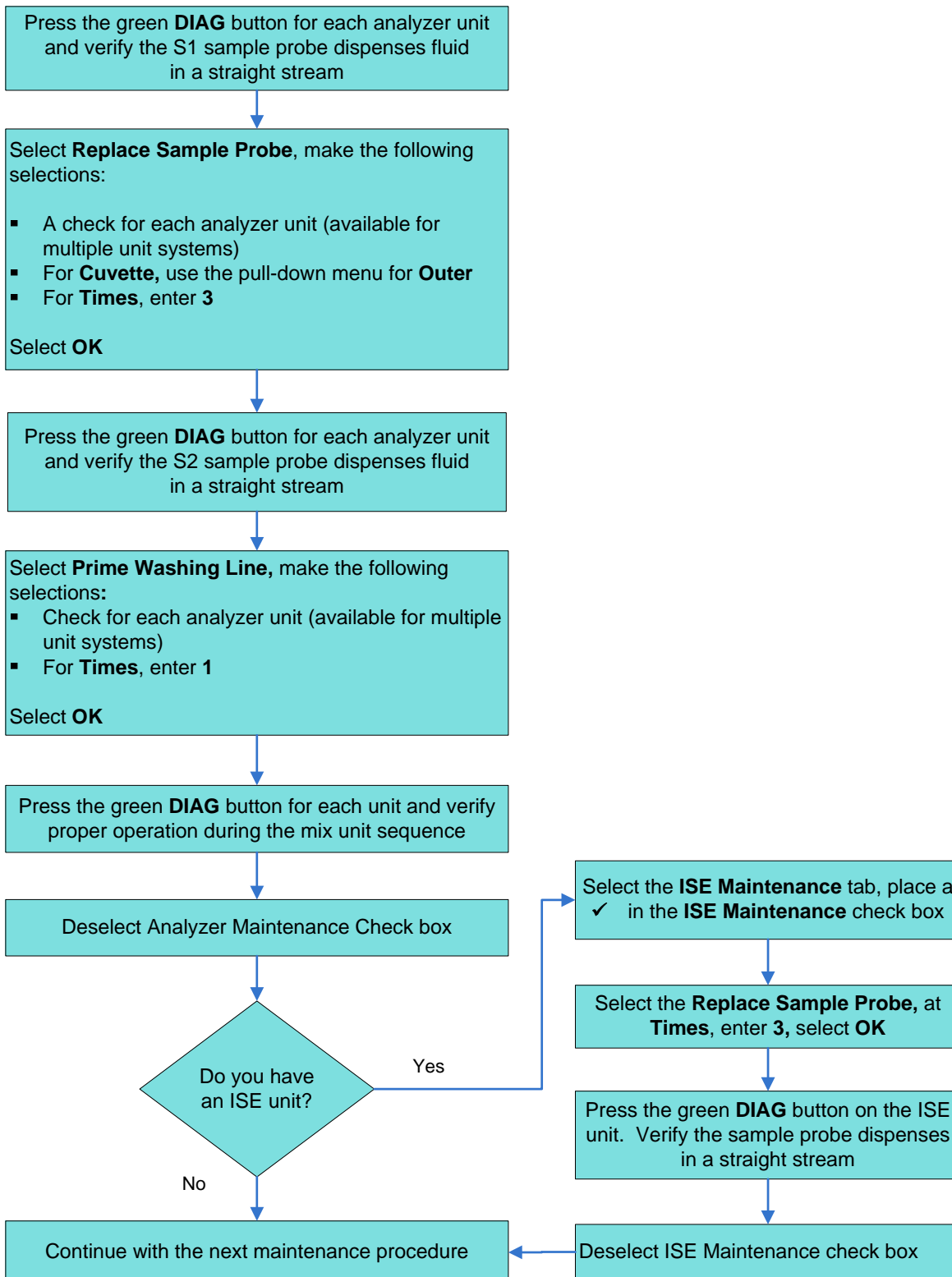
Press the green **DIAG** button to move the ISE probe to the ISE CLEAN cup position. Press the green **DIAG** button again to begin the prime. Repeat the prime 3 times (a prime is complete when the green light turns on)

When the procedure is complete, discard the cups used

Continue with the next maintenance procedure







## Clean the Pre-dilution Bottles

### Supplies Required:

- Optional:  
Two 60 mL reagent bottles per analyzer unit (if alternating weekly)
- 10% Bleach (Beckman Sodium Hypochlorite (5%) diluted 1:10. Prepare by adding 10 parts bleach to 90 parts DI water)

Ensure the system is in **Standby** or **Warmup** Mode

Open the front main cover of each analyzer unit

Remove the pre-dilution bottles located outside the R1 reagent compartment

Wash the pre-dilution bottles by filling them with the 10% bleach solution

Rinse the pre-dilution bottles with DI water until the scent of bleach is rinsed away

Fill the pre-dilution bottles with DI water **or** allow the bottles to air dry and fill the alternate pre-dilution bottles with DI water

Place the the pre-dilution bottles filled with DI water in the appropriate positions outside the R1 reagent compartment on each analyzer unit

Close the front main cover(s)

Complete maintenance by performing the following:

- Calibrate the ISE unit (if any procedures were performed on the ISE unit)
- Process QC on the entire system (ISE and analyzer units)

Document you completed the procedure on the paper maintenance log