PCL-CH- 001 Rev. 2 Checklist Hydrofluoric acid and buffered oxide etch of substrates H. Lee, Yimin Zhou

Users (two names):

Fumehood or

Wet Bench Center : ______ Day/Date: ______

Time: _

4.1 Preparation

Get Lab Manager/Technician approval to use HF/BOE	
Copy of procedure PCL-PR-001 on-hand	
Copy of "Hydrogen Fluoride Protocol" on-hand	
Copy of MSDS for hydrofluoric acid on-hand	
Copy of MSDS for buffered oxide etch on-hand	
Check calcium gluconate ointment is available	
Caution other Users in Cleanroom that HF/ BOE is being used.	

4.2 Personal Protective Equipment

Check blue nitrile gloves for pinholes, chemical residue	
Check face shield for damage, dried chemical residue	
Check apron for holes, damage, chemicals residue	
Check thick nitrile gloves for holes and chemicals residue	
Check work area is clean and dry	

4.3 Supplies

Adequate supply of wipes available	
Polypropylene labware clean and dry	
Have garbage can nearby with white garbage bag inserted	
Tweezers available and clean	
Waste bottles on hand	

4.4 General Procedure

Put on thick chemical apron	
Put on face shield	
Put on thick nitrile gloves	
Use a large Pyrex tray as spill containment for the HF beaker.	
If possible, carry out operations involving HF with one gloved hand. The other gloved hand may then be free for turning valves in hood area. If gloves become wet or otherwise come into contact with HF, do not turn on any valves or switches until the gloves are rinsed well with water.	
If there is any doubt about skin contact with HF, flood area for several minutes (especially under fingernails). HF causes severe burns to skin and eyes that are not immediately painful or visible	
Wash or rinse your hands following the performance of an etch or when moisture that might even remotely contain HF is contacted. If HF is contacted, immediately quench with water	
Work with the utmost caution	

Comments/Notes

4.5 Cleanup

Make sure outside of HF stock bottle is clean, dry, acid free	
Make sure outside of buffered oxide stock bottle is clean, dry, acid free	
HF stock bottle - put back into Acid storage cabinet	
BOE stock bottle - put back into Acid storage cabinet	
Waste HF and BOE have been bottled in plastic bottle	
Waste HF and BOE bottle is labeled with name, date and contents.	
If waste is generating gas bubbles, do not cap tight.	
If waste is generating gas bubbles, label bottle "Danger, cap is not tight due to gas	
generation"	
Waste bottles have been placed in Acid Storage cabinet	
All polypropylene labware has been rinsed well with water	
All counter surfaces wiped with water and wiped dry	
Thick gloves has been rinsed with water and hung to dry	
Face shield has been wiped with water and hung to dry	
Chemical apron has been wiped with water and hung to dry	
Used wipes, swabs and used disposable gloves have been doubled bagged	
Wet bench lights have been turned off	
Nitrogen gun valves have been turned off	
Take double bagged white garbage and put in the outside fumehood (take cleanroom gowns off and go to the fumehood in the General Purpose area)	

END Time _____

5.0 Checklist Filing

File this completed checklist in the passthrough for pickup by Technician