

WSIX PM PROCEDURE

PM Type: YPM

Machine: WSIX CVD

PM Frequency: 20000 to 22000 wafer

Prepared by:

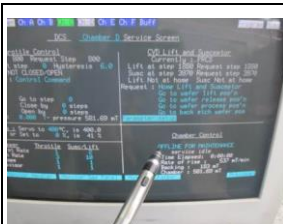
Robin 羅彬森

S200 FURNACE

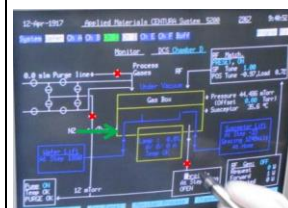
Date: May 2017



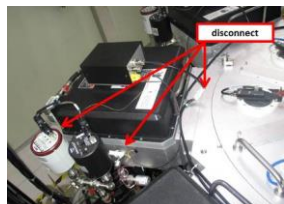
1. Confirm if chamber is ready to PM,
(No wafer process inside)



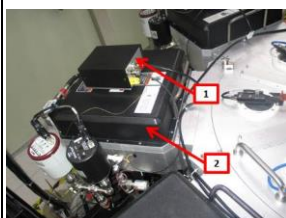
2. Confirm if slit valve closed then Set
chamber service to OFFLINE for
Maintenance,



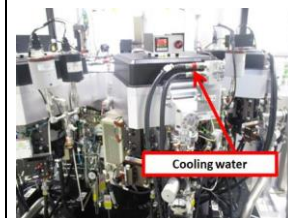
3. Turn off throttle valve and AR gas
supply and vent chamber



4. Remove heater connection, and TC
cable wire



5. Remove TC monitor and top cover



6. Remove chamber lid cooling water
hose connection



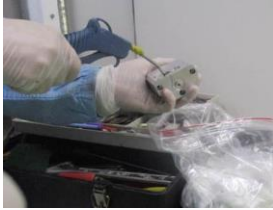
7. remove chamber (3screw) and
takeout chamber lid



8. On chamber Lid, remove gas feed
line assembly,



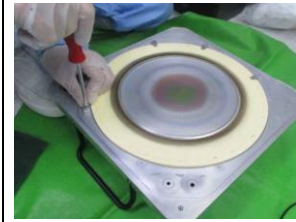
9. Disassemble gas feed pipe to clean
inside



10. Clean inside manifold part using pressured air



11. Change all o ring and change quarts tube pipe



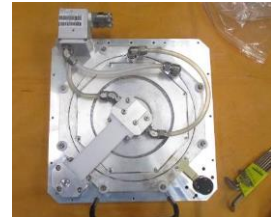
12. Remove shower head assembly



13. clean shower head then clean by IPA and pressured air TOP and BOTTOM



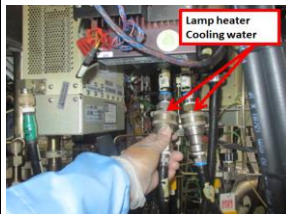
14. Assemble and install clean gas feed pipe



15. Clean and assemble chamber lid with shower head and gas feed assembly. Change all O-ring



16. Remove lamp heater power cable



17. Remove lamp heater cooling water supply



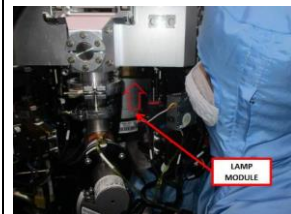
18. Remove Lamp heater module



19. Remove quarts window, 8screw



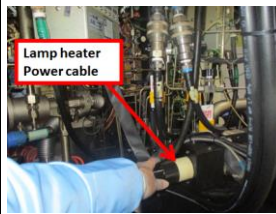
20. Install new/clean quarts window using new o ring



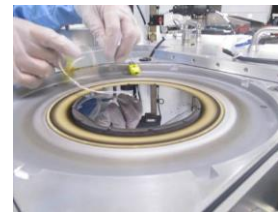
21. Install Lamp heater module



22. Connect chamber cooling water supply



23. Connect lamp heater and power cable



24. Install chamber lid and put TC wafer on susceptor (wafer process position)



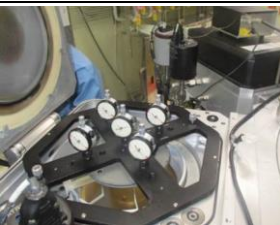
25. Close chamber and connect temperature meter



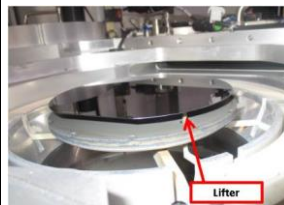
26. Pump down vacuum and heat up to 400 degrees



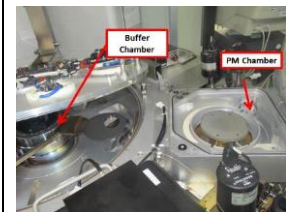
27. Check and adjust and check reading until TC wafer Temperature reading reach 340degC



28. Cool down chamber, open and check horizontal level of susceptor. Adjust if needed



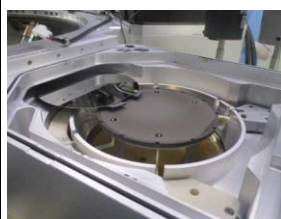
29. Move up lifter, put dummy wafer on top and check horizontal level. all finger position must touch wafer



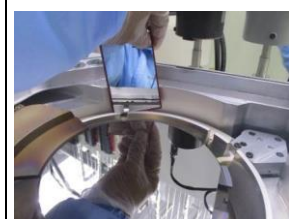
30. Open buffer chamber to check transfer



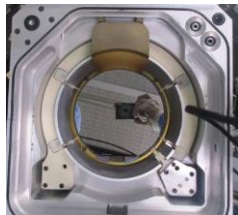
31. Remove dummy on chamber. Transfer check by loading cassette of dummy wafer from Load lock A and B



32. Check and watch transfer robot position 1 by 1 step to each chamber



33. Check transfer if height of wafer do not touch chamber lifter



34. Do wafer transfer to chamber then check and adjust wafer position to center of susceptor.



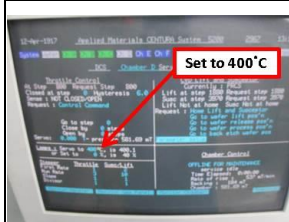
35. Transfer Ok, change slit valve O ring



36. Change chamber lid O ring clean inside and close chamber



37. Close chamber pump Vacuum and purge AR gas



38. set heat up to 400degC



39. Conduct leak check average of <0.8mTorr/min

EA TEST RUN

40. Inform EA for test run and PTC inspection