

CN1 Atomic Premium ALD

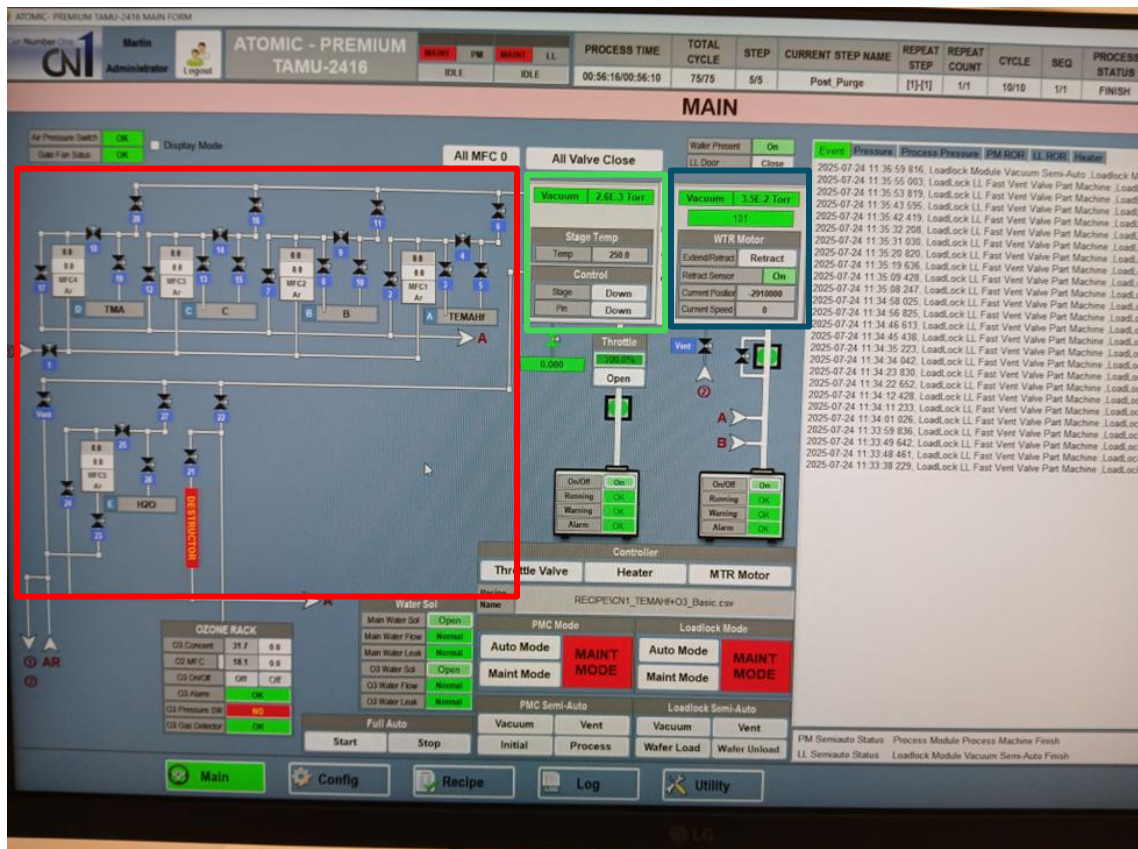
STANDARD OPERATING PROCEDURE

Username = Martin

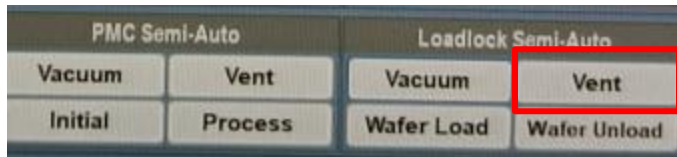
Password = 1

A. OPERATION

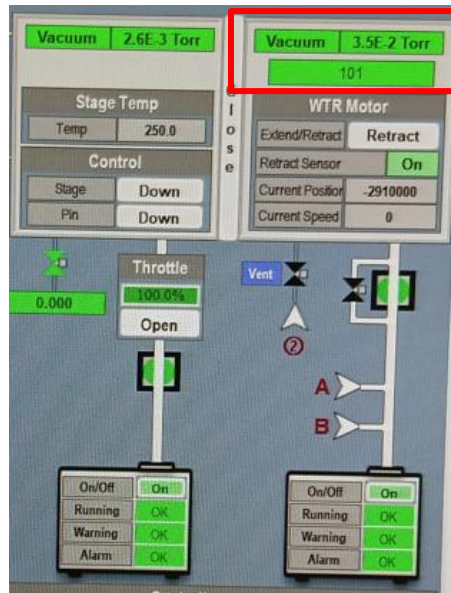
1. The MAIN page shows the GUI of the system with the **MFCs** and the **process chamber** and the **Loadlock**



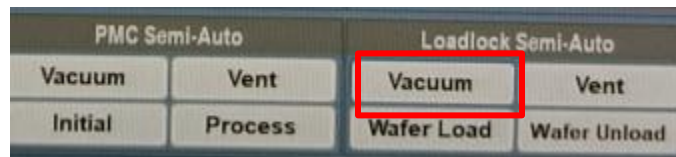
2. Vent the Loadlock by clicking the "Vent" icon



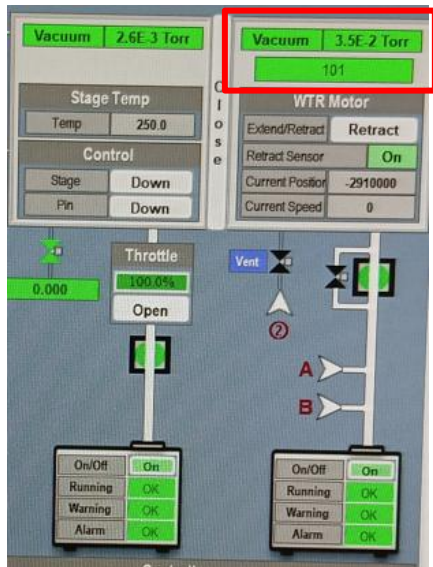
3. The Loadlock pressure will increase and change from “Vacuum” to “ATM” (atmosphere)



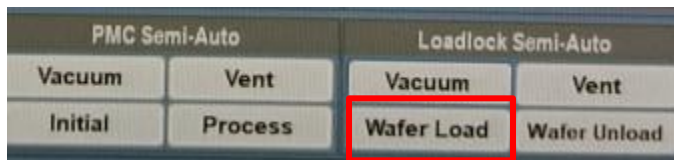
4. Open the Loadlock lid and place your sample. The 8” inch wafer can be used for carrier for coupon samples
5. After placing the sample close the Loadlock lid and click the “Vacuum” icon



6. The Loadlock pressure will drop and status will change to “Vacuum”



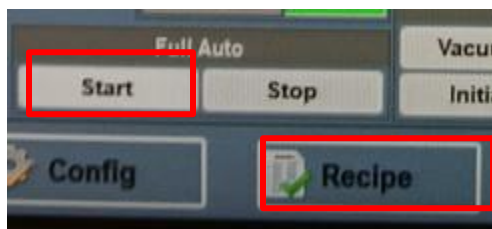
7. Select “Wafer Load” to load the wafer from the Loadlock to the process chamber



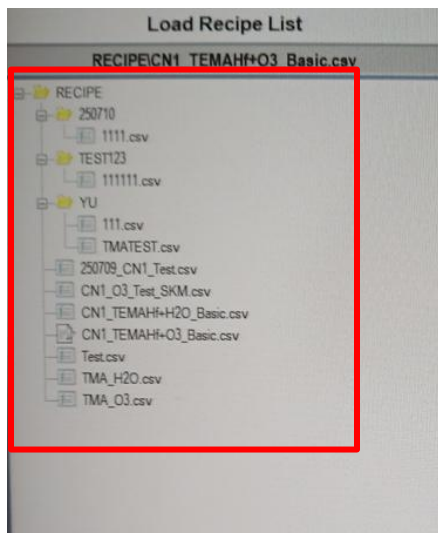
8. Select the Auto Mode before running the recipe and the **MAINT MODE** will change to **AUTO MODE**



9. Select the “Start” icon under Full Auto and go to RECIPE



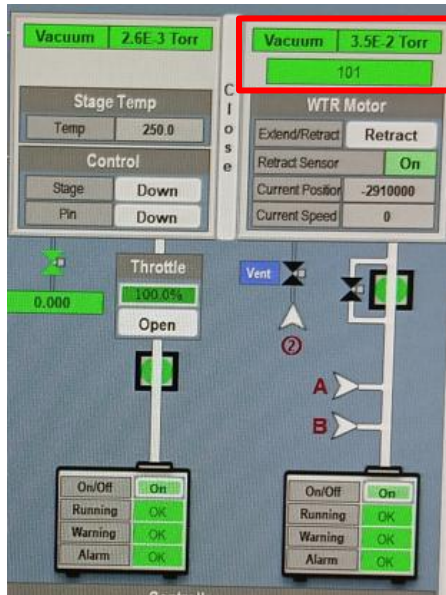
10. Select a recipe from the relevant folders and start the process under Full Auto Mode as selected in the previous step



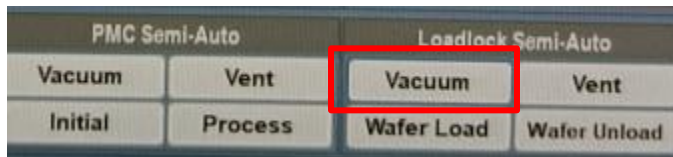
11. The no. of cycles, steps, current step name and process status will be displayed on top of the MAIN page

PROCESS TIME	TOTAL CYCLE	STEP	CURRENT STEP NAME	REPEAT STEP	REPEAT COUNT	CYCLE	SEQ	PROCESS STATUS
00:56:16/00:56:10	75/75	5/5	Post_Purge	[1]-[1]	1/1	10/10	1/1	FINISH
MAIN								

12. Once the recipe is complete the sample will be transferred from the process chamber to the Loadlock and the Loadlock will vent and the Loadlock pressure will increase and change from "Vacuum" to "ATM" (atmosphere)



13. Open the lid of the Loadlock and take the sample out and close the Loadlock lid and click the “Vacuum” icon



14. The Loadlock pressure will drop and it will pump down to vacuum

B. SIGNATURES AND REVISION HISTORY

- a) Original author of this document: Prithvi Basu
- b) Original author Title or Role: Research Engineer II
- c) Date of original draft: 28 July 2025

Approval:

Senior Lab Manager Signature:

Date:

Revision	Author	Date
Original Issue	P.Basu	28 July 2025