

University of MN, Minnesota Nano Center

Standard Operating Procedure

Equipment Name: Prebake Dehydration Oven
Badger name: oven-1
Model: Blue M Stable Therm
Location: Bay 2
Revision Number: 3
Revisionist: Paul Kimani
Date: 29 October 2013

1. Description

- a. This is a non-exhausted oven with a monitored temperature setting of 150 °C. There is a center rack for placing substrate boats. The dial is set at 150 °C.

2. Safety

- a. Take caution when unloading your hot substrates when the Prebake time is complete.

3. Restrictions/Requirements

- a. Wafers must not have any material on the surface that could out-gas fumes. This oven is not exhausted.
- b. Do not change the temperature of this oven; it is to remain at 150 °C.

4. Required Facilities

- a. 120V electrical outlet.

5. Definitions

6. Setup

- a. Place substrates arranged perpendicular in the quartz boats provided or place the substrates on a handmade foil boat.
- b. Users must supply their own method of timing the length of bake.

7. Operating Instructions

- a. Open the door and place substrates in the oven on the rack and close the door.

8. Problems/Troubleshooting

- a. If the settings are not at the above set point, notify the process staff.