# University of Minnesota Nano Center

## **Prebake Dehydration Oven-**Standard Operating Procedure

**Badger Name:** n/a
**Model:** Blue M Stable Therm
**Location:** Keller-Bay 2

**Revision:** 4
**Revisionist:** Laura Parmeter
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### 1. Scope

**1.1.** This document provides detailed instructions on how to properly operate the Prebake Dehydration Oven.

### 2. Tool description

**2.1.** 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.




***Figure 1*** *The prebake dehydration oven.*

### 3. Safety

**3.1.** Take caution when unloading your hot substrates when the Prebake time is complete.

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**4. Restrictions**

**4.1.** Wafers must not have any material on the surface that could out-gas fumes. This oven is not exhausted.

**4.2.** Do not change the temperature of this oven; it is to remain at 150 °C.

**5. Tools and Equipment**

**5.1.** 120V electrical outlet.

**5.2.** Quartz boat (optional)

**6. Procedure**

**6.1. Setup**

**6.1.1.** Place your substrate perpendicular in the quartz boats provided or place them on a handmade foil boat.

**6.1.2.** Users must supply their own method of timing the length of bake.

**6.2. Operating Instructions**

**6.2.1.** Open the door and place substrates in the oven on the rack and close the door.

**7. Problems/Troubleshooting**

**7.1.** If the settings are not at the above set point, notify MNC staff.