

University of Minnesota Nano Fabrication Center

Standard Operating Procedure

Equipment Name: Hot Plate

Coral Name: hotplate-prebake **Revision Number:** 3
hotplate-softbake

hotplate-hardbake

Model: HP72652 **Revisionist:** S. Miller

Location: Bay 2 **Date:** 02/14/06

1 **Description**

The 7-inch by 7-inch ceramic top hot plate has a closed loop feedback control, which will accurately maintain temperature +/- 4°C.

2 **Safety**

a The hot plate is surface is always hot, remove substrates with a metal or Teflon coated metal tweezers.

3 **Restrictions/Requirements**

- a Completed the aligner short courses.
- b Only substrates with clean backsides are to be heated, do not heat beakers with any type of liquid.
- c. Do not move the hot plate. It is to remain inside the vented area.
- d. Clean up the surface of the hotplate if it is dirty after use.

4 **Required Facilities**

a 120 Volts outlet

5 **Definitions**

a None

6 **Setup**

a. None

7 **Problems/Troubleshooting**

- a If the hot plate is not on, press the on/off rocker switch that is located on the right, under the ceramic top. It will take 5 to 10 minutes to stabilize.
- b If the hot plate is at the incorrect temperature or OFF, locate the Heat control knob on the front right just under the ceramic top. While watching SET power light located on the front left of the ceramic top, press Heat Control Knob in momentarily, then turn clockwise to increase the temperature, counter clockwise to decrease the temperature until the needed set point is shown.. Press the knob to activate. The set point will be displayed for approximately 8 seconds until the lighted display returns to the actual temperature.