Palomar Adaptive Optics Test Plan

<table>
<thead>
<tr>
<th>Title</th>
<th>BTO shutdown</th>
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<tbody>
<tr>
<td>Version</td>
<td>1.2</td>
</tr>
<tr>
<td>Date released</td>
<td>8/25/2007</td>
</tr>
<tr>
<td>Lead</td>
<td>Laser Operator</td>
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<tr>
<td>Time requested</td>
<td>30 min. at end of last night of observing run.</td>
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<td>Required conditions</td>
<td>N/A</td>
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**Purpose**
Shut down and protect optics and electronics of the BTO.

**Test procedure**

**Prime Focus**
Requires: Kimwipes, tape, compressed air, 0.05" allen key, radio.
1. Dust off LLT primary and install primary mirror cover.
2. Turn off LLT FSM controller (on/off switch on front of controller).
3. Dust off LLT FSM and install blue metal cover (stored in box in PF elevator, tiny screws require 0.05" allen key).
4. Wrap up Q3 beamsplitter with kimwipe and tape.
5. Wrap up LLT diagnostics beamsplitter wedge with kimwipe and tape.

**Trolley**
Requires: Kimwipes, tape, compressed air.
1. Sent trolley to bottom of track (“Trolley down” button or move trolley 5100000).
2. Dust and cover trolley mirror with kimwipe and tape.
3. Dust and cover Q1 beamsplitter with kimwipe and tape.
4. Send trolley to storage position (“Trolley stow” button or move trolley 2650000).
5. Turn off BTO computer
   5.1. In a new terminal window, ssh root@bto.palomar.caltech.edu (password is on AO system)
   5.2. shutdown -h now
   5.3. logout
   5.4. Wait for computer to shutdown
6. Exit GUI
   6.1. File > quit
7. Turn off all BTO electronics on network power switch:
   7.1. telnet viswa_power
   7.2. /off 1
   7.3. /off 2
   7.4. /off 3
   7.5. /off 4
   7.6. /off 7
   7.7. /x
   7.8. Check that the status is off for everything

**Coude Lab**
Requires: compressed air, 0.05" allen key.
1. Turn off 660nm laser power supply (on/off button on front).
2. Turn off Newport FSM controller, ESP300 controller, and delay generator.
3. Dust off Coude FSM and install blue metal cover (stored on top edge of bench).
4. Cover BTO optical bench.
5. Turn off tiny switches on backs of both microphones, and turn off microphone power supply.
6. Turn off video camera power supply (can be done by reaching between old optics above and to the right of the Coude bench).

Results and conclusions