# Procedures for checking the integrity of the illumination and imaging fibers

1. Locate one orange fiber shown here in one of the optic box (it is 15 meter long).

2. Locate the fiber checker like this one, a red laser pointer, in one of the optic box

3. Turn on the laser by pushing switch #1 once immediately followed by switch #2 once. (the turn on sequence is a little tricky)

switch #2   switch #1
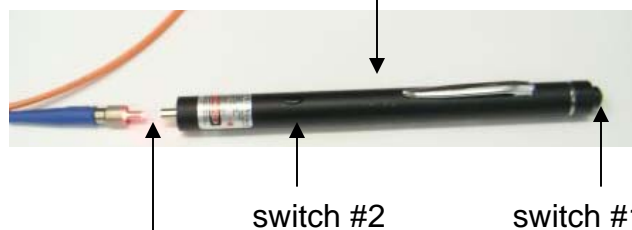
4. Couple one end of the orange fiber into the fiber checker by inserting the SMA connector into the ferule of the fiber checker. (the coupling is not quite a tight fit, so it's best let them sit on a flat surface so they won't move)

5. Couple the other end of the orange fiber into the #1 illumination input port shown here.
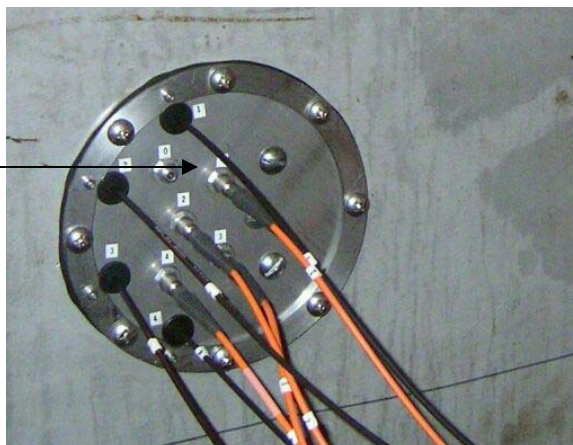
6. It's not necessary to uncoil any (black) imaging fibers from the spool but rather locate all output ends on the spool labeled #1 to #4.

7. Confirm that light exit imaging fiber #1 using a white paper shown here
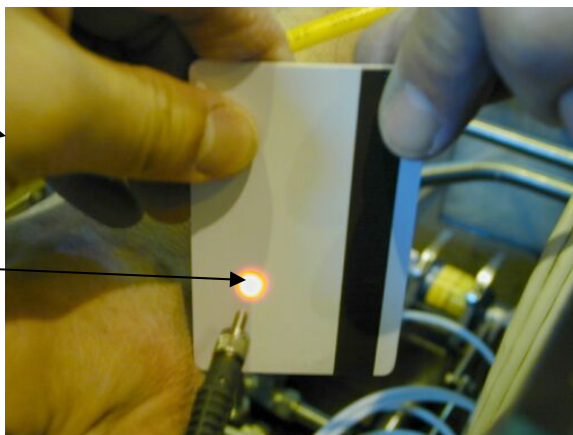
8. If the illumination and imaging channel is in good shape, strong red light should be observed, otherwise the fiber might have been broke or optics have been shifted.

9. Repeat the process on fiber #2 to #4