

ARCS PROCEDURE:	MPLHR STARTUP/SHUTDOWN	PRO(MPLHR)-005.001
Author: C. J. Flynn		February 18, 1999 Page 1 of 2

MPLHR Startup/Shutdown

I. Purpose:

This procedure details routine startup and shutdown of the Micro Pulse Lidar - High Resolution (MPLHR) for ARCS-2. This procedure is **NOT** intended to be used if the Micro Pulse Lidar is out of operation for more than three days. In that case, the procedure MPLHR Cold Start, PRO(MPLHR)-002, must be used instead.

II. Cautions and Hazards:

- The laser exiting the transceiver telescope of the MPLHR is classified as a Class 1 Eye-Safe laser. Although not actually harmful, some discomfort may be experienced from direct eye exposure. It is good practice to limit direct eye exposure to laser radiation. When working with the MPLHR, avoid looking directly down the beam into the telescope.

III. Requirements:

None

IV. Procedure:

A. MPLHR Shutdown:

1. Stop processes on MPLHR instrument PC:
 - Stop acquisition of data by selecting the red "END" icon on the upper right-hand side of the Micro Pulse Lidar display.
 - Terminate the Micro Pulse Lidar program by selecting the "X" close box in the upper right-hand side of the window.
 - Select the **netcdf** ingest module from the Task Bar at the bottom of the screen.
 - Select **End Ingest** or **MPL Ingest**.
 - Select **START; SHUTDOWN** from the Task Bar.
2. Turn **OFF** Spectra Physics Laser Diode Supply:
 - With the Spectra Physics remote control handset, press the ★ (above CONTROL) button until WATTS is shown.

ARCS PROCEDURE:	MPLHR STARTUP/SHUTDOWN	PRO(MPLHR)-005.001
Author: C. J. Flynn		February 18, 1999 Page 2 of 2

- Press the down arrow until the laser power reads zero.
 - Turn the key switch on the Spectra Physics Laser Diode Supply to the **OFF** position.
 - Turn **OFF** surge protector (switch on bottom).
3. Turn **OFF** the SESI Lidar Control by turning the rocker switch to **OFF**.

B. MPLHR Startup:

This procedure is **NOT** to be used if the system is down for three days or more. If the system was down for an extended period, use the MPLHR Cold Start procedure, PRO(MPLHR)-002, instead.

1. Turn on the SESI Lidar Control by turning the rocker switch to **ON**.
2. Wait until both lights on the Lidar Control are lighted (about 5 sec.).
3. Turn **ON** the Spectra Physics Laser Diode Supply:
 - Turn the key switch on the Spectra Physics Laser Diode Supply to the **ON** position.
 - Press the ★ (above CONTROL) until WATTS is shown.
 - Press the UP arrow until the laser power reads **1.00**.
4. Turn **ON** the Micro Pulse Lidar instrument PC.

V. References:

1. MPLHR Cold Start, PRO(MPLHR)-002.

IV. Attachments:

None.