This document will outline steps for The DCH group to put the drift chamber electronics and chiller in the minimal maintenance state for long term suspended animation. This procedure also serves as a hazard mitigation document.

This document presupposes that drift chamber is in a normal shut down mode.

Equipment required: 4 gold supervisor locks keyed the same. Four tags with information as to who holds the keys for the gold locks. (See Figure 6.) One red lock and tag for the person doing the work. Safety glasses and all cotton upper garments

Disable low voltage and disconnect from the drift chamber.

The low voltage power supply is located in rack 11 of the EH at elevation 11. Turn off the LV supply at the front. (See Figure 1.)

The breakers for the supply are at the end of rack 1; panel 2PB620B-04 breakers 38, 40 and 42. They are ganged together. Lock and tag these breakers. (See Figure 2.)

At the back of rack 11 disconnect the locomotive cables for the low voltage to the chamber from the back of the low voltage supply. Cover the exposed lugs of the cables with plastic bags and tape bags to cable ends. (See Figure 3.)

Replace the lock and tag on the breakers at panel 2PB620B-04 breakers 38, 40 and 42 with a gold supervisor lock. Attach tag with key ownership information.

Disable high voltage and disconnect from the drift chamber.

The high voltage supply is located in rack 11 of the EH at elevation 25. Turn the key at the front of the power supply to ‘Off’. (See Figure 4.)

At the back of rack 11 find the power cord to the high voltage supply and unplug it from the power outlet in the rack. Lock the plug end of the power cord in a Brady 65674 (or equivalent) plug case. (See Figure 5.) Use a gold supervisor lock and attach a supervisor tag.

At the back of rack 10 disconnect the HV cables from the back of the high voltage filter chassis. Bag and tape the connector ends.

Draining the chiller system.

Follow the procedure and safety notes outlined in:

With the following additions.

When you turn off the main power to the chiller apply a gold supervisor lock and tag to the power switch. (See figure 7.)
At the end of the procedure apply a Brady #65692 or equivalent valve lock (See figure 8.) to MV10. (See figure 9.) Apply a supervisor lock and tag.

Figure 1. L.V. Power Supply - Front.

Figure 2. Breakers to be locked and tagged.

Figure 3. L.V. Power supply - Back.

Figure 4. H.V. Power supply - Front.

Figure 5. Brady plug lock.

Figure 6. Supervisor lock tags.
Figure 7. Chiller main power.

Figure 8. Brady 65692 Valve lockout.

Figure 9. MV10 water input valve.