

**Hurricane Preparation Check List –****Cryogenics****COVERAGE**

This check list applies to the Central Helium Liquifier (CHL- building 8), Trailer 10, the End Station Refrigerator (ESR - building 102), the Cryogenic Test Facility (CTF - building 57), and Cryogenic Service Building (building 98).

**YEAR-ROUND READINESS**

1. Building Manager and/or Safety Warden maintain a weather-alert radio in the CHL Control Room, and keep Cryogenic Group Leader advised of declared watches, warnings, and special announcements.
2. Supervisors, Sponsors, or SOTRs brief new personnel and visitors on JLab's Severe Weather preparation and response plans.
3. Send revisions to Severe Weather Check List to Emergency Manager for web-page posting.
4. Update Essential Personnel Lists. Send copy to Emergency Manager.

**NOTE**

The CHL will be kept on line until electrical power is lost. If limited electrical power is restored, but is insufficient to drive the Howden compressors, the recovery compressors will be energized. Then gaseous helium will be pumped into the gas storage tanks. If electrical power is not restored within twelve hours, we will be forced to vent helium to the atmosphere. The ESR will also be kept on line until electrical power is lost.

**HURRICANE PREPAREDNESS CONDITION 1 (HPC-1)*****Duration of Hurricane Season (June 1 – Oct. 30)***

1. Review/update Severe Weather Check List. Send mark-up to Emergency Manager for web-page posting.
2. Update Essential Personnel Lists. Send copy to Emergency Manager.
3. Inventory Supplies on hand; replenish if needed:
4. Check tie-downs for the following:
  - a. Trailer 10 and any other trailers in the custody of Cryogenics Group
  - b. Inspect the following for structural integrity and water-tightness and take appropriate action: CHL, CTF, ESR, Building 98, and Trailer 10.

- c. Transportainers
  - d. Gas storage tanks
  - e. Dewars
  - f. End Station transfer line
5. **Report completion of preparations to line management.**

## **HURRICANE PREPAREDNESS CONDITION 2 (HPC-2)**

1. Evaluate all contract work in progress or about to start and take appropriate action.
2. Review the gaseous helium and liquid nitrogen inventories, and order as necessary.
3. Notify essential staff, if any, and give direction to them.
4. Keep all members of the Cryogenics Group informed of the status of preparations for the hurricane.
5. **Report completion of preparations to line management.**

## **PREPAREDNESS CONDITION 3 (HPC-3) – Highest**

1. Move expensive equipment and vital records from trailers and transportainers to a safer location. If Group assets for storage are inadequate, contact the Accelerator Site Safety Warden.
2. Inspect outdoor areas and tidy up as feasible. Move designated items indoors. Tie down other items which are loose and could become hazards in a strong wind.
3. After advising the Test Lab Building Manager, secure the CTF.
4. Ensure important computer records are backed up.
5. Comply with instructions issued by management to secure personal office computers, telephones, and offices prior to departure.
6. Keep the on-duty Crew Chief and the Gate House Guard informed of your intentions and plans.
7. Review contents of trailers and transportainers and take available action. Do not expect these structures to survive.
8. Supervisors, Sponsors, or SOTRs brief staff, visitors, and subcontractors about sources for Lab status information may be found and the importance of not returning to the site until re-opening is officially announced.
9. **Report completion of preparations to line management.**

## DOWNGRADING READINESS CONDITIONS

1. When management downgrades the readiness condition and announces that it is safe to allow occupants to return to their offices and work places, provide guidance to staff about restoring their offices and equipment to normal.
2. If storm damage is a possibility or a certainty, inspect all areas for damage. Make an inventory of affected areas and equipment, noting the apparent damage based upon preliminary assessments.
  - a. If the hurricane has not caused damage at CEBAF, return cryogenic systems and structures to normal as soon as possible.
  - b. If the hurricane has caused damage at CEBAF, and when declared safe by Plant Engineering, inspect cryogenic structures, both exterior and interior, for damage. Document problems. Initiate repairs and replacements as appropriate.
3. If the experience of preparing for this storm, presented opportunities to improve the check list, initiate necessary changes/update with the Emergency Management Manager.

---

Return to [Hurricane Check List](http://www.jlab.org/intralab/emergency/hurricane/index.html). <http://www.jlab.org/intralab/emergency/hurricane/index.html>

Return to [Emergency Management](http://www.jlab.org/intralab/emergency/). <http://www.jlab.org/intralab/emergency/>

maintained by [webmaster@jlab.org](mailto:webmaster@jlab.org)

For questions regarding Emergency Management, contact [John Kelly](#).