

BNB Power Outage Response

Reviewed by _____

If the BNB Service Buildings or power supplies are affected by a power outage, use the guidance below to aid in the investigation and recovery. Steps don't need to be done in the order they're written. Some can be done simultaneously and some can be skipped depending on the situation. As always, the major objective during any power outage is to ensure the safety of personnel and equipment, and to restore power.

Contact Personnel as Necessary:

- Duty Electrician
- External Beams Department Head
- BNB Machine Coordinator
- Mechanical Support Department Head
- Experiment Shifter(s)
- Operations Specialist for External Beams
- Operations Department Head

If power is lost at MI-12:

Contact the Duty Electrician to start up the Generator at MI-12 so that the ground water pumps will run. *This is especially important if it is raining!*

Scout:

If personnel are available, a field team can try to ascertain the extent of the outage.

- Bring a flashlight and tour the BNB Service Buildings to make note of the areas that are without power.
- Make note of any other issues found such as strange odors and water on the floor.

Monitor:

If the Controls System is running, it can be used to monitor the following:

- Supply and Return pressures and temperatures for the Horn RAW systems.
- Status of BNB power supplies.
- Status of MI-12A and MI-12B interlocks.

Actions:

If you discover signs of trouble with any BNB system, take reasonable action to protect associated equipment.

- For RAW system issues, turn off the BNB Horn and contact the RSO.
- If LCW leaks are discovered, the leak can be valved out.

Follow all guidance given by the experts who are contacted. They may have additional instructions.

When Power Returns:

- Inform everyone who has already been contacted.
- Validate alarms to ensure everything that should be monitored is being monitored.
- Continue to monitor BNB RAW system pressures and temperatures.

- Tour the BNB Service Buildings as time and personnel availability permit. Look for any signs of lingering complications.
- Work with experts to begin recovering affected systems (vacuum, magnet power supplies, etc.)
- Verify that all BNB Nodes are responding to the node poll.
- Restore all BNB CAMAC crates to a recent good running file via D2.
- When beam returns, verify that the BNB Autotune is up and running.

Make sure to document all steps taken in the MCR e-log.

***A word file for this document is kept on the BD/Operations Staff Sharepoint.**

NOTES: Please use this area to note problems encountered during recovery.