

# Switchyard Power Outage Response

Reviewed by \_\_\_\_\_

If the Switchyard 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
- Switchyard Machine Coordinator
- External Beams Department Head
- External Beams SY120 Expert
- Mechanical Support Department Head

## Remnant LCW System:

A power outage can cause the Remnant LCW system to become misconfigured and at risk of cavitation. Verify the following:

- Remnant LCW system is on and not cavitating.
- T:CW50 is open.
- One LCW pump at each house from A1 through F4 is on.
- One pond pump at each house from F1 through F4 is on.

If all of the above conditions cannot be met, run the Remnant LCW Off NOW sequencer.

## Scout:

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

- Bring a flashlight and tour the Switchyard areas and service buildings and 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 Remnant LCW system.
- Remnant LCW tank level.
- Service building temperatures.
- Status of Switchyard power supplies.
- Status of Switchyard enclosure interlocks.

## In the event of an extended power outage:

- Remember to check SY, G2, NM1, & NM2 sump levels. If water levels are in danger of overflowing a generator may be required to supply power to the sumps. Coordinate with the Switchyard Machine Coordinator.

## 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 Remnant LCW system pressures, temperatures, and levels.
- Tour the Switchyard areas and 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 Switchyard Nodes are responding to the node poll.
- Restore all Switchyard CAMAC crates to a recent good running file via D2.

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

**NOTES:** Use the back of this page to note specific problems encountered during recovery.