Nebraska Public Power District
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Flood Facts and Information (June 2011)

What You Need to Know

NPPD's priority is to safely and reliably deliver electricity to our customers.

Learn more about the flood impacts on NPPD's operations and the precautions we are taking at our affected facilities:

- Power Plants (Cooper Nuclear Station, Brownville, NE)
- Power Lines, Facilities and Customer Service Centers
- How NPPD is 'Always There'

Learn what you can do

- Electrical Safety Tips
- Report an Outage
- Request a Disconnect/Reconnect

Media

- Photo Gallery
- CNS Flood Preparations
- CNS Flood Preparations (RAW)
- CNS Flood Preparations (small)
- Flood Preparations
- Flood Safety Tips

Related Links

- National Weather Service
- Federal Emergency Management Agency
- Nebraska Emergency Management Association
- Nebraska Department of Health and Human Services
- Missouri River Region Corps of Engineers Chart
- Missouri River USGS flow data in Nebraska
- NOAA Weather Service Data
- U.S Army Corps of Engineers (Facebook)

Power Plants

NPPD is taking measures necessary to protect the public's health and safety, while continuing to provide reliable electric service. One part is ensuring that NPPD's power generation plants across the state continue to operate as planned. Currently, all facilities are operating as normal.

are operating as normal.

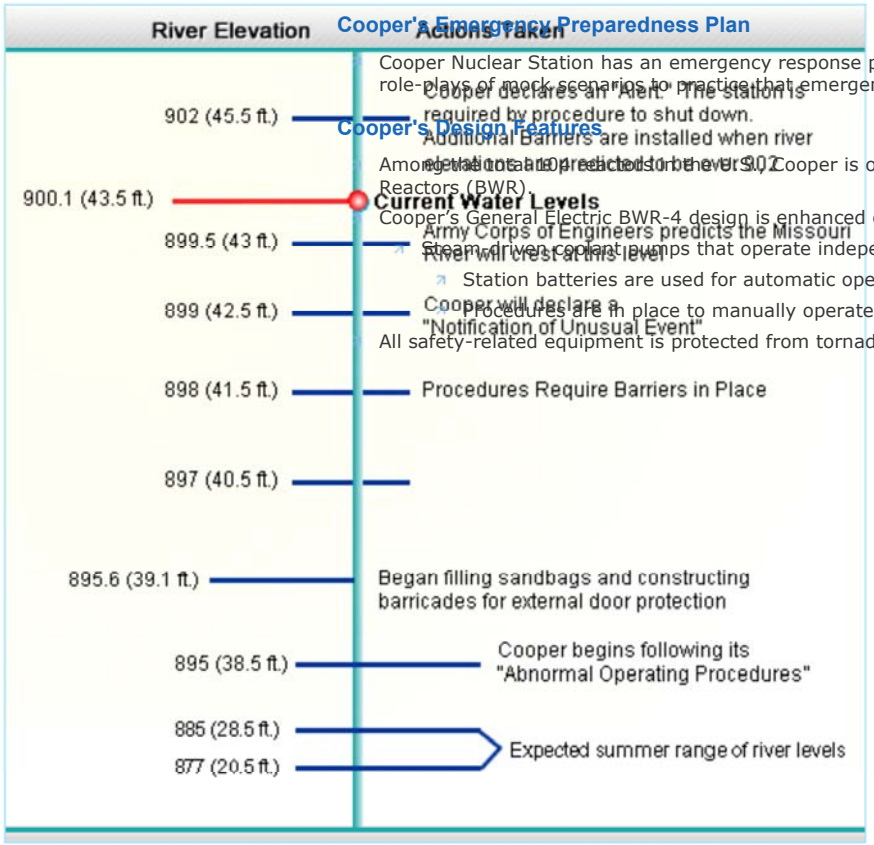
Cooper Nuclear Station

At Cooper Nuclear Station, located south of Brownville, Neb., NPPD is working with local, state and regulatory officials to manage flood conditions at the site. Emergency actions and mitigation activities to secure the plant from rising waters are based on actual river height, referred to at Cooper as feet above mean sea level. The graphic below indicates the water level at Cooper's intake structure along the Missouri River. Actions have been developed as part of the plant's emergency procedures at certain pre-determined river levels and are noted on the following chart:

- The Army Corp of Engineers advises it will slowly increase the flows from Gavin Dam until the release rates are approximately 150,000 cubic feet per second (c a goal to achieve this release rate no earlier than June 15.
- These releases are likely to increase the river level at CNS to more than 899 fe
- In 2010, the Missouri River flooded this same area, reaching a peak of 899.4 fe
- NPPD is taking the measures necessary to protect public and employee health a safety, while continuing to provide electric service, and is ready to initiate its e preparedness plan, if necessary.

Cooper's Emergency Preparedness Plan (Flooding)

View water levels at Brownville



Disclaimer: *Cooper Nuclear Station measures the Missouri River's water elevation at the mean sea level. Conversions to depth of river in feet are placed in parentheses behind these levels. It is also important to note that changing river conditions, mountain snowmelt, and precipitation, all play a role in the fluctuating river levels. Procedure-required steps are noted with an asterisk. Station management continuously tracks the river's level and anticipates precautionary measures for protecting plant equipment from flooding conditions.*

Cooper's Emergency Preparedness Plan

Cooper Nuclear Station has an emergency response plan that includes periodic role-plays of mock scenarios to practice that emergency response plan.

Cooper's Design Features

Among the total 34 reactors in the U.S., Cooper is one of thirty-five Boiling W Reactors (BWR).

Cooper's General Electric BWR-4 design is enhanced or modified to include:

- Steam-driven coolant pumps that operate independently from AC power.
- Station batteries are used for automatic operation.
- Procedures are in place to manually operate without DC power.

All safety-related equipment is protected from tornadoes and external flooding

potential flooding.

signed against flooding from the Missouri River. The site was elevated 13' above the natural grade to elevation 903 ft mean sea level to accommodate the maximum, probable flooding event.

- NPPD's personnel working at Cooper Nuclear Station (CNS) continue to monitor the increasing levels and water flows.
- The primary access road leading to the plant is closed. Employees are accessing the plant from an access road out of Nemaha. The road is being raised three inches to avoid flooding and maintain access to the plant.
- Plant personnel began sand bagging external doors and put in additional protective barriers June 8 and are preparing to implement the site's flood procedures.
- Additional diesel fuel is also on-site in the unlikely event that any of the plant's three diesel generators need to operate.