Actions to Prepare for Extreme Heat



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| Actively monitor weather conditions and extended weather forecasts. | Complete pre-disaster activities to help apply for federal disaster funding (e.g., contact state/local officials with connections to funding, set up a system to document damage and costs). |
| Review and update your utility's emergency response plan (ERP), and ensure all emergency contacts are current. Conduct briefings, training and exercises to ensure utility staff is aware of all preparedness, response and recovery procedures. Identify priority water customers (e.g., hospitals), obtain their contact information, map their locations and develop a plan to restore those customers first, in case of water service | Determine if technical assistance programs are offered by the state, including wellhead protection programs for community water supplies. Assistance may involve: • Development and utilization of predictive water use models that assist in locating water for communities • Development and utilization of formal groundwater monitoring networks |
| Monitor water supply and calculate how long water could be provided if increased demand persists. | Join your state's Water/Wastewater Agency Response Network (WARN) or other local mutual aid network. |
| Actively monitor surface water levels and groundwater well levels, and identify the sustainable withdrawal rate for each | Coordinate with WARN members and other neighboring utilities to discuss: |
| Establish "triggers" or "threshold values" for extreme heat conditions that will require action (e.g., if reservoirs fall below a certain level, if water quality measures exceed a specified | Outlining response activities, roles and responsibilities and mutual aid procedures (e.g., how to request and offer assistance) Conducting joint tabletop or full-scale |
| level). | exercises |
| Develop an emergency drinking water supply plan and establish response partner contacts (potentially through your local emergency | Obtaining resources and assistance, such as equipment, personnel, technical support or water |
| management agency [EMA] or mutual aid network) to discuss procedures, which may include bulk water hauling, mobile treatment units or temporary supply lines, as well as storage and distribution. | Establishing interconnections between systems and agreements with necessary approvals to activate this alternate source. Equipment, pumping rates and demand on the water sources need to be considered and |
| Conduct a hazard vulnerability analysis in which you review historical records to understand the past frequency and intensity of extreme heat events and how your utility may have been impacted. Consider taking actions to mitigate drought impacts to the utility, including those provided in the "Actions to Recover from | addressed in the design and operations Establishing communication protocols and equipment to reduce misunderstandings during the incident |

Extreme Heat Events: Mitigation" section.

Actions to Prepare for Extreme Heat (continued)



| Coordinate with other key response partners, such as your local EMA, to identify potential points of distribution for the delivery of emergency water supply (e.g., bottled water) to the public, as well as who is responsible for distributing the water. Understand how the local and utility emergency operations center (EOC) will be activated and what your utility may be called on to do, as well as how local emergency responders and the local EOC can support your utility during a response. If your utility has assets outside of the county EMA's jurisdiction, consider coordination or preparedness efforts that should be done in those areas. Sign up for mobile and/or email alerts from your local EMA, if available. Communication with Customers Communicate with critical customers, high water users and agricultural customers to discuss seasonal demand, conservation measures and irrigation practices. Review public information protocols with local EMA and public health/primacy agencies. These protocols should include developing water advisory messages (e.g., boil water, warnings that service disruptions are likely) and distributing them to customers using appropriate mechanisms, such as reverse 911. Develop outreach materials for the public (e.g., radio, social media, and bill stuffers) that encourage personal hydration, as well as materials that clearly describe conservation measures and activities. | Document pumping requirements and storage capabilities, as well as critical treatment components and parameters. Maintain a full storage tank to assist with demand should there be a source loss, power failure or fire suppression needs. In the case of a power loss, ensure personnel are trained to shut down and start up the systemanually. Power, Energy and Fuel Evaluate condition of electrical panels to accept generators; inspect connections and switches. Document power requirements of the facility; options for doing this may include: Placing a request with the US Army Corps of Engineers 249th Engineer Battalion (Prime Power): http://www.usace.army.mil/249thEngineerBattalion.aspx Using the US Army Corps of Engineers on-line Emergency Power Facility Assessment Tool (EPFAT): http://epfat.swf.usace.army.mil/ Confirm and document generator connection type, capacity load and fuel consumption. Test regularly, exercise under load and service backup generators. Collaborate with your local power provider and EOC to ensure that your water utility is on the critical facilities list for priority electrical power restoration, generators and emergency fuel. |
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| Become a WaterSense partner and download free water efficiency outreach materials to distribute to your customers: http://www.epa. | |

gov/watersense/

Actions to Respond to Extreme Heat (continued)



| Documentation and Reporting——— | Power, Energy and Fuel |
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| Document all damage assessments, mutual aid requests, emergency repair work, equipment used, purchases made, staff hours worked and contractors used during the response to assist in requesting reimbursement and applying for disaster funds. When possible, take photographs that illustrate the extreme heat conditions (with time and date stamp). Proper documentation is critical to requesting reimbursement. Personnel Ensure all staff working in the field are aware of the risks of extreme heat and that they take actions to avoid health risks and over-exertion (e.g., hydration, sunscreen, taking frequent breaks in the shade, wearing appropriate clothing). | Fill vehicles and fuel tanks to full capacity; ensure that you have the ability to manually pump gas in the event of a power outage. Use backup generators, as needed, to supply power to system components. Monitor and plan for additional fuel needs in advance; coordinate fuel deliveries to the generators. Maintain contact with electric provider for power outage duration estimates. |
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Actions to Respond to Extreme Heat



| Work with your regulatory agency to assist in identifying and approving alternate water supplies and operational or design changes. Monitor wildfire conditions and outlooks. See the Wildfire Incident Action Checklist for more information on how to prepare for wildfires. Coordination Communicate with public health officials, local EMA and other partners to: Discuss issues related to extreme heat emergencies and public health activities Evaluate conditions and water use requirements related to HVAC systems required by hospitals and identify alternative means to supply water if the utility is unable to meet demand If needed, request or offer assistance (e.g., water buffalos, water sampling teams, generators) through mutual aid networks, such as WARN. Work with your local EMA to establish cooling centers for the public. Communication with Customers Implement mandatory or voluntary water conservation efforts, and conduct regular outreach to customers. | If water shortages or outages occur, notify customers of water advisories; consider collaborating with local media (television, radio, newspaper, etc.) to distribute the message. If emergency water is being supplied, provide information on the distribution locations. Facility and Service Area Utilize pre-established emergency connections or set up temporary connections to nearby communities, as needed. Alternatively, implement plans to draw emergency water from predetermined tanks or hydrants. Notify employees of the activated sites. Monitor source water quantity (e.g., reservoir levels, stream flows, well levels, groundwater levels). Monitor water quality and adjust treatment, if necessary, as reduced water quantity and increased temperatures could change water chemistry. Notify regulatory/primacy agency if operations and/or water quality or quantity are affected. If possible, run pumps during off-peak hours when there is less demand on power and less risk of a power failure. |
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| Notes: | |