

Genasys for Dam Safety

Keep People Safe from Breaches and Dangerous Flooding

Far more than reservoirs to maintain drinking water, dams serve as critical power generation, flood mitigation in vulnerable hydrologic locations, and sources of recreation. For those who live downstream, the danger that comes with a breach is **very real and potentially catastrophic**. The wall of water that rushes downstream would destroy everything in its path – both life, landscape, and property. Breaches can happen from an onslaught of torrential rain common in hurricanes and atmospheric rivers, from earthquakes, or even from age-related failure points.

Genasys hardware and software combine to mitigate damage caused by catastrophic dam failure, keep people safe, and provide 24/7 protection. Integrated sensors send automated alerts via multiple channels, including the mobile app and long range speakers to broadcast clear, intelligible messages to people in harm's way. Zone-based planning reduces the time to coordinate evacuations, notify people, and get them to safety.

The Genasys dam safety solution has been implemented in Puerto Rico, including the Guajataca dam, several dams in California, and the famous Hoover Dam along the Colorado River.

Genasys enables you to:

- » Generate precise evacuation zones for faster decision-making and easier communication in a crisis
- » Communicate with unregistered public to "meet them where they are"
- » Genasys mobile app and website (anonymous)
 - Zone-based notification to target communications to the right audience
 - Social media integration
 - Outdoor, always-connected speakers
- » Simulate and model to help make more accurate decisions in real time
- » Use a common operating picture with multiple agencies to help make faster decisions with timely, incident-specific information
- » Monitor dam safety with integrated sensors to automatically trigger alarms and warnings



Genasys for Dam Safety

The complete Protective Communications platform

Reduce the time from incident recognition to community notification with integrated sensors, zone-based planning, and multi-channel communication through apps, messages, media and always-connected acoustic speakers. Use the power of Genasys to keep people safe, downstream of dams and have confidence knowing you'll be ready when it matters.

Genasys Protect

Manage evacuations, notify the public, and coordinate agencies through one multi-channel communications platform with targeted alerts, real-time situational awareness, and decision-making support.

Acoustics

Broadcast wide-area audio alerts from fixed, networked speakers that deliver clear instructions across communities, even when power or cellular networks fail.

LRAD

Project clear, directional long-range voice commands that are heard and understood even in high/noise environments from portable or vehicle-mounted LRAD units.

Evertel

Facilitate safe, secure and compliant inter- and intra-agency collaboration. Create day-to-day efficiencies and quickly communicate across teams in a potential dam breach crisis.

Targeted communications

Reach the right people with precise communication zones built on detailed datasets. Customize, merge, adjust, or draw zones on the fly, ensuring the safety of residents, visitors, and the unhoused.

Integrated Sensors

Gain 24/7 protection with sensor integrations that trigger instant, automated alerts. Notify people at the first sign of potential dam failure, before it's too late.

Actionable Information

Give residents verified, location-based, visual updates to aid evacuation and repopulation efforts with a public map, reducing 911 calls and confusion.

Common Operating Picture

Align with real-time data and critical information across agencies, federal departments and even military support in a crisis for a collaborative response.



"The EWS is vital to the community's safety. Through these alarm systems, people will be notified in case of emergencies such as extreme floods, controlled flood releases, or seismic activity, so they can take timely action to reduce disaster risks. Besides helping save lives and property, this will strengthen disaster preparedness and risk reduction in the communities located downstream of each dam." – **José G. Baquero**,
FEMA Federal Disaster Recovery Coordinator

Genasys: Global Provider of Protective Communications Solutions

Protecting people and saving lives for over 40 years, Genasys covers more than 155 million people in all 50 states and in over 100 countries.

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