



# EMI SIG

# EMERGENT

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## Subcommittee CONVERGENT



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### [FEMA National Preparedness Report 2018](#)

The 2018 Report details lessons learned from past emergency incidents and focuses on Persistent Preparedness Challenges that must be addressed in order to increase the Nation's readiness for disaster. These challenges include the capacity to sustain an effective emergency response to a large-scale incident through operational coordination; challenges with the interdependence of infrastructure systems and the need to mitigate disruption to communities; lack of emergency housing during a disaster and slow rebuilding post-disaster; poor economic recovery and limited emergency assistance funds; and, threats to cybersecurity.

### [Public Works and Emergency Management](#)

In his PrepTalk Mann shares a career's worth of public works experience, including response and recovery from many disasters. Mann explains that the lifelines managed by a public works department are essential to "allow the community to survive" before and after a disaster. These systems include transportation;

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supporting utilities to restore power and communications; water for homes, businesses, and fire suppression; waste and stormwater management; and solid waste management including debris removal.

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[Cyberattacks may be the new WMDs](#)

The DoD seeks to know if the use of cyberattacks can weaken the United States' WMD defenses, or if cyber warfare can make adversarial WMDs more dangerous. They list that a significant cyberstrike could destroy critical infrastructure, take the financial system offline, or compromise the accuracy of essential military systems.

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[SRS Crews Apply Lessons Learned](#)

Workers with Savannah River Nuclear Solutions (SRNS), the site's management and operations contractor, now wear surgical gloves and sleeves while conducting EM cleanup work inside gloveboxes in the facility, which is housed within Building 235-F. The PuFF Facility has been inactive for more than 25 years.

The gloves are used in the medical industry to protect surgeons' hands from radiation generated by x-ray machines or procedures involving nuclear medicine, while the lead sleeves protect their arms.

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[National Lab Supercomputers help fix wildfire problem](#)

At Los Alamos National Laboratory, atmospheric scientist Alexandra Jonko is using a supercomputer and a system called FIRETEC to model fires in extreme detail. It models, among other things, air density and temperature, as well as the properties of the grass or leaves in a particular area.

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[Y-12's protective force trains with Marines](#)

"The best part about this is that they're training guys who are performing the same mission that we are," said Neal Wolfenbarger, head of tactical operations for the protective force. "They're just performing it with the Department of Defense instead of the Department of Energy."

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[Thank You Dr. Craig](#)

Among his most important, valuable, and long-lasting contributions, not only to the DOE Emergency Management system but to emergency managers around the world, were his development of the Temporary Emergency Exposure Limits (TEELs) and development of the Chemical Mixture Methodology (CMM).

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