

AMERICAN
PUBLIC
POWERTM
ASSOCIATION

Powering Strong Communities



American Public Power Association Mutual Aid Working Group

Chairman

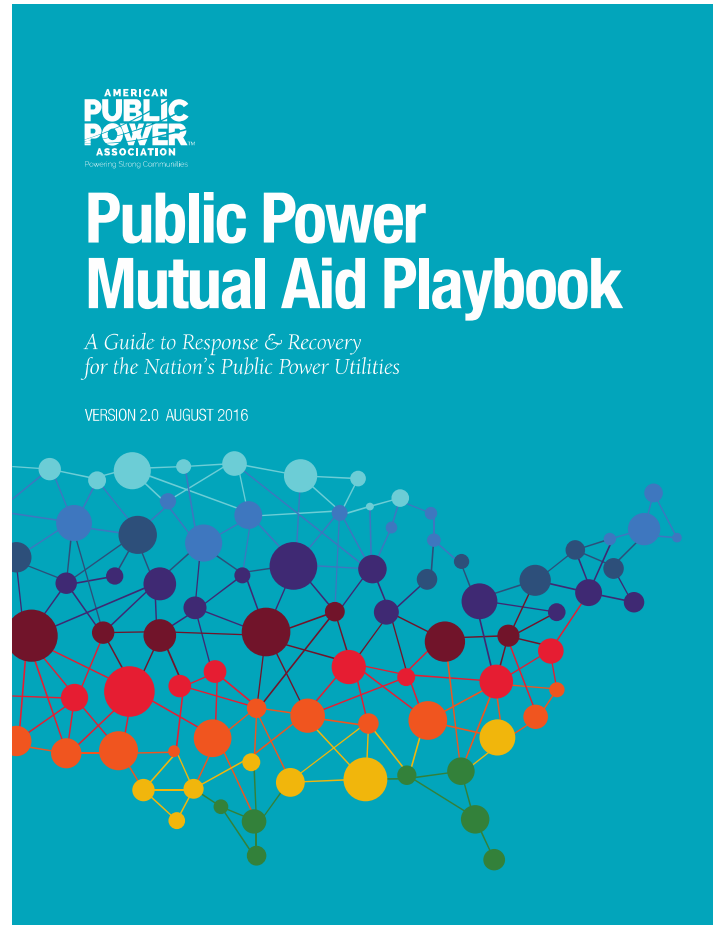
Rick McKinley

Electric Operations Superintendent

City of Kirkwood Electric Department

Kirkwood, MO 63122

National Playbook for Response



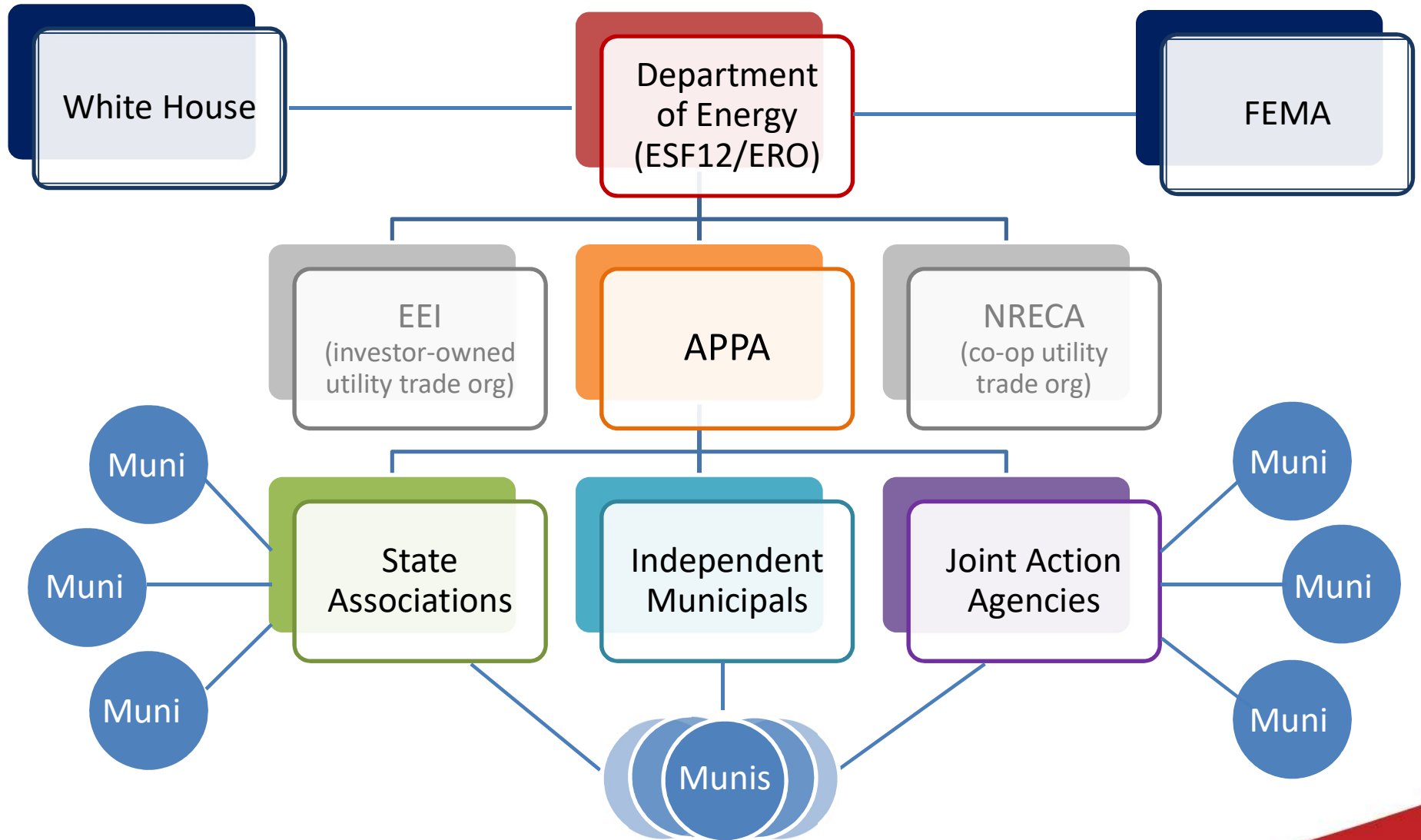
About APPA's Mutual Aid Network

- Public power utilities have engaged in mutual aid for over 100 years, primarily through local, state and regional efforts
- Approximately 2,000 municipal and cooperative utilities have signed on nationwide
- Late 90's: Created a one-page mutual aid agreement developed by APPA and National Rural Electric Cooperative Association (NRECA)

The Network that Was

- **Tier 1: Utility Coordinator** – point of contact (POC) for an individual municipal utility or a small group of utilities
- **Tier 2: Network Coordinator** – POC for a group of participating mutual aid utilities or, in rare situations, a large or isolated utility . Network coordinators may be part of a state association, joint action agency or municipal electric utility.
- **Tier 3: National Coordinator** – central POC for the federal government and public power utilities. The national coordinator is an APPA staff member.

Public Power's National Challenge



Formalizing Public Power's Mutual Aid Process

APPA/NRECA
Mutual Aid
Agreement
developed

1999

Post-Sandy
Hotwash with
DOE and DHS

Jan.
2003

Mutual Aid
"Committee of
the Willing"
formed

June
2013

Oct.
2012

Superstorm
Sandy hits



May
2013

Gap analysis
conducted
Meeting with
President Obama



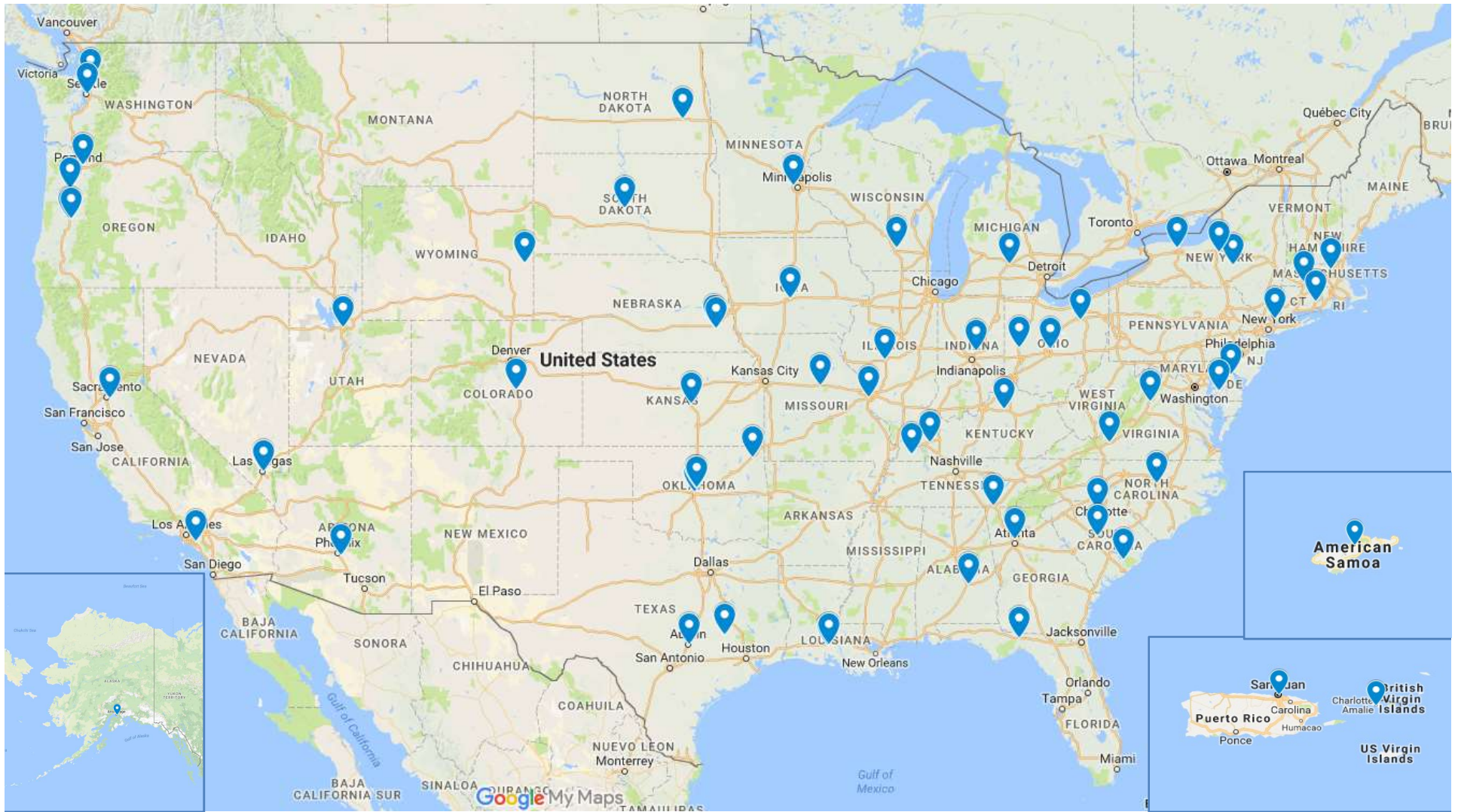
Sept.
2013

First meeting
of Mutual Aid
Working Group
(MAWG)

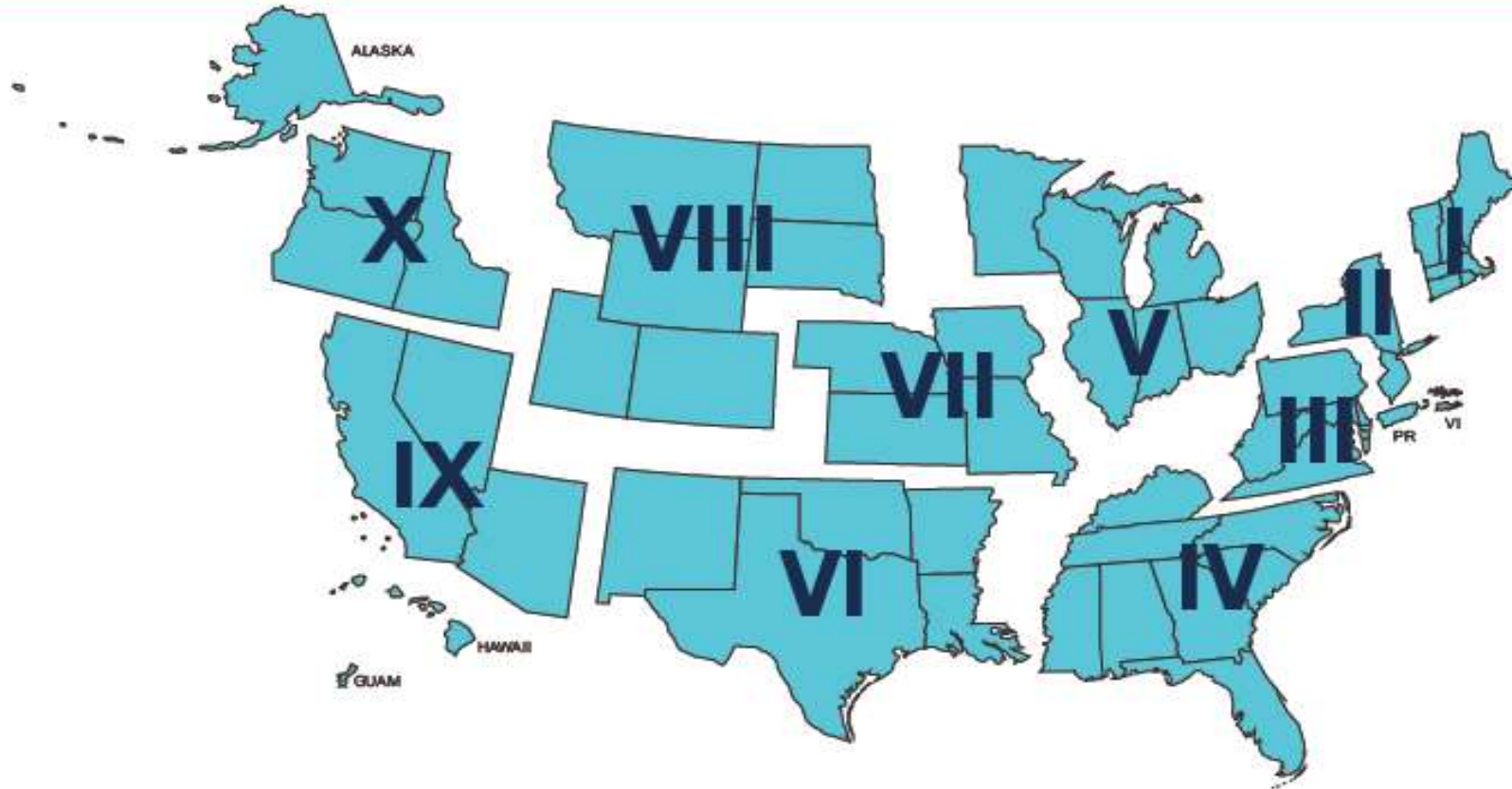
Formalizing Public Power's Mutual Aid Process, Con't



MAWG Members

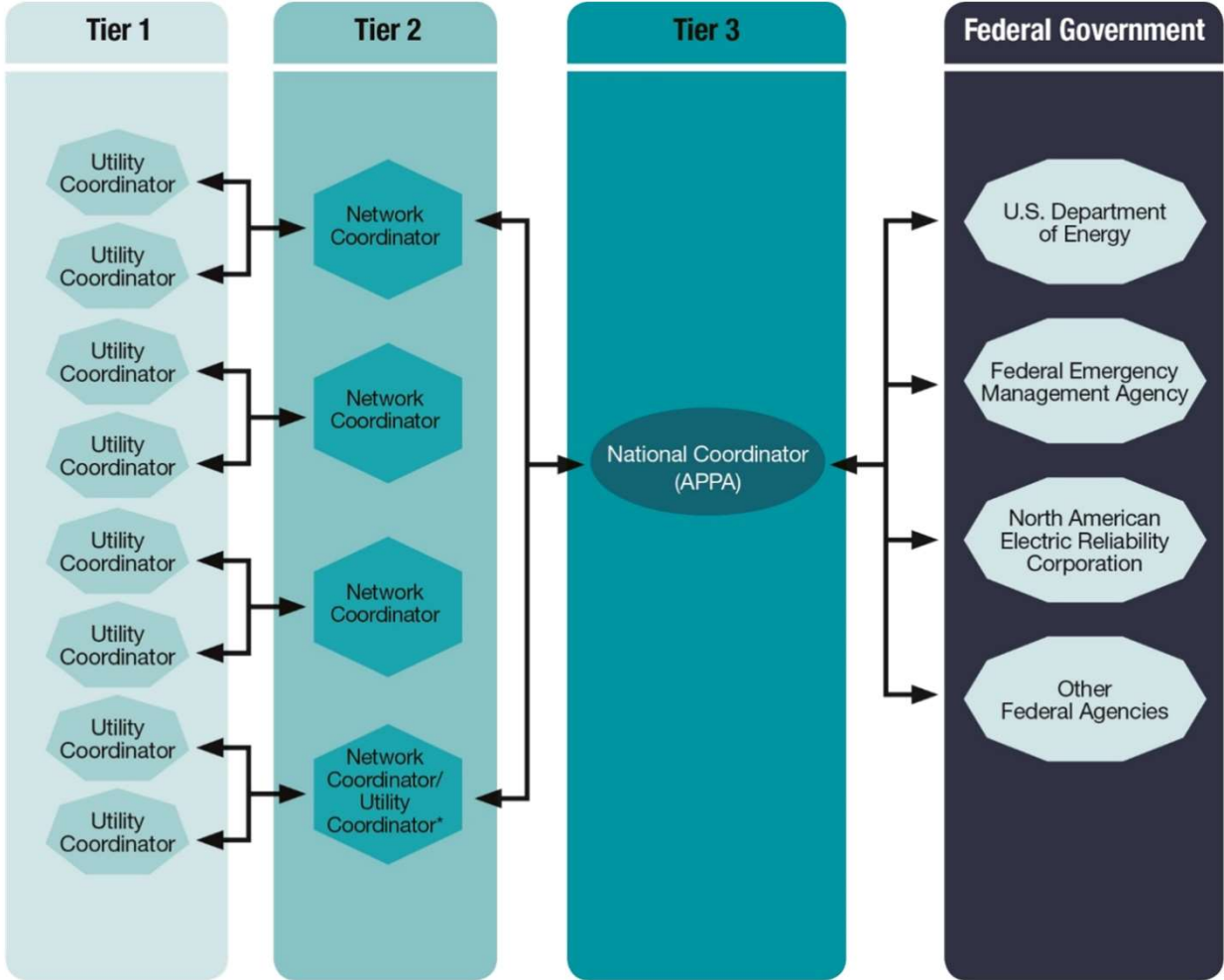


Mutual Aid Network Regions

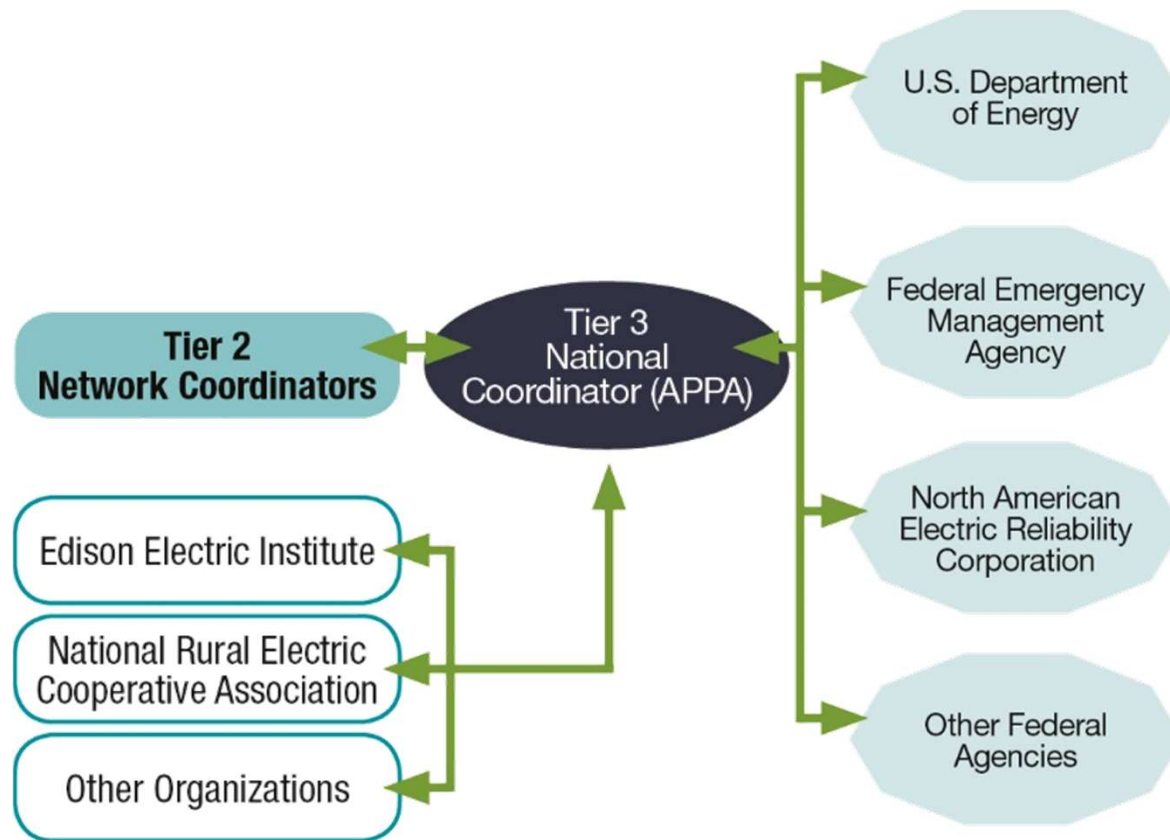


American Samoa, Commonwealth of Northern Mariana Islands, Republic of Marshall Islands, and Federated States of Micronesia are not shown.

Know the Network



Know Your Resources



Trigger and Responsibility Matrix

Level	Tier 1: Utility Coordinator	Tier 2: Network Coordinator	Tier 3: National Coordinator (American Public Power Association)
Steady State			
0 No outages	<ul style="list-style-type: none"> Update contact and resources lists and communicate periodically with network coordinator 	<ul style="list-style-type: none"> Compile contact and resources lists from utilities within network 	<ul style="list-style-type: none"> Maintain mutual aid playbook and listserv
1 Isolated event	<ul style="list-style-type: none"> Assess need, respond to event, and determine if escalation is needed 	<ul style="list-style-type: none"> None generally, but may assist with information as requested 	<ul style="list-style-type: none"> Maintain mutual aid playbook and listserv
Local/State Mutual Aid Activated			
2 Local/state event	<ul style="list-style-type: none"> Communicate needs and available resources to network coordinator and update periodically Manage response within their utility 	<ul style="list-style-type: none"> Monitor response May assist identifying available resources Inform APPA of response, potential needs, and if preemptive call is needed 	<ul style="list-style-type: none"> Monitor conditions for possible escalation Monitor response to inform federal agencies
Regional Mutual Aid Activated			
3 Regional event	<ul style="list-style-type: none"> Communicate needs and available resources to network coordinator Periodic updates of needs and resources as response proceeds 	<ul style="list-style-type: none"> Assist identification of available resources May work with other network coordinators to mobilize needed resources 	<ul style="list-style-type: none"> Host preemptive call with affected network coordinators Monitor response to inform federal agencies
National Mutual Aid Activated			
4 National event	<ul style="list-style-type: none"> Communicate needs and available resources to network coordinator Multiple daily updates of needs and resources as response proceeds Manage local response 	<ul style="list-style-type: none"> Assist identification of available resources Work with other network coordinators and APPA to mobilize needed resources 	<ul style="list-style-type: none"> Available to coordinate response Inform federal agencies

Communications Plan

Figure 3.1.2 Utility Coordinator Level 4 Communications Plan

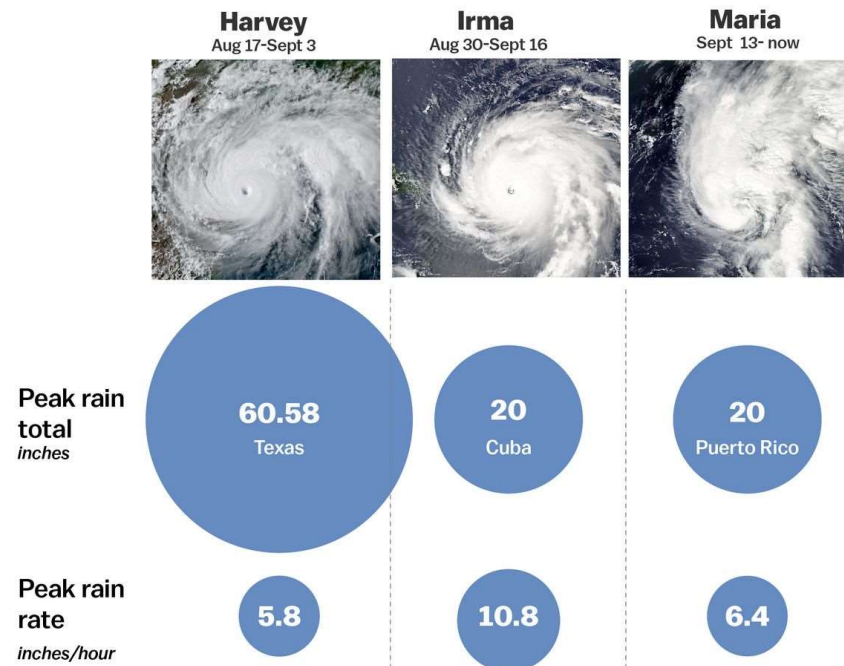


2017 Storm Season Timeline



2017 Storm Season Comparison

How the recent storms compare



SOURCE: NOAA, NASA

Vox

Harvey



Harvey



2017 Storm Season Comparison:

Irma & Maria (Highest 1 minute sustained winds (175 mph or greater) on SS Scale)

Highest 1 minute sustained winds (175 mph or greater)
Source: <http://bit.ly/2AkUySt>

Rank	Hurricane	Season	Winds	
			mph	km/h
1	Allen	1980	190	305
2	"Labor Day"	1935	185	295
	Gilbert	1988	185	295
	Wilma	2005	185	295
	Irma	2017	185	295
6	Mitch	1998	180	285
	Rita	2005	180	285
8	"Cuba"	1932	175	280
	Janet	1955	175	280
	Carla	1961	175	280
	Camille	1969	175	280
	Anita	1977	175	280
	David	1979	175	280
	Andrew	1992	175	280
	Katrina	2005	175	280
	Dean	2007	175	280
	Felix	2007	175	280
	Maria	2017	175	280

Why was USVI/Puerto Rico Different?



Mutual Aid – what we do best...but we can't drive to the Islands...



Is there an easy fix?

- Pre-storm condition of assets matters...
 - Vegetation
 - Maintenance (including vehicles)
 - Construction (ex. pole depth...)
 - Supply of materials
- Adherence to standards
 - Codes...
- Need for collaboration
 - Mutual aid...
 - Agreements in advance of storm
 - Conferences/education
- Sharing Best Practices
 - FEMA ICS
 - Restoration leading practices

Additional Resources

- **Emergency Preparedness Tabletop Exercise-in-a-Box (Free):** A standalone resource designed to provide everything you need to conduct a tabletop exercise, including guidance on preparing for the exercise, facilitating the exercise, and conducting a post-exercise debrief. The resource includes three scenarios: winter storm, flooding, and tornado.
- **Storm Communications Toolkit (Free):** Provides pre-scripted messages and communications guidance that can be tailored for use by your utility when responding to a storm event.

Additional Resources

- **FEMA Public Assistance & Hazard Mitigation Grant Programs Toolkit:** Public power utilities are eligible to receive disaster assistance through FEMA following major disaster declarations. This toolkit provides resources for how to best position your utility to maximize FEMA Public Assistance and Hazard Mitigation funding.
- **Safety Manual:** The premium source for safety compliance information for your electric utility. The Association works with the SMRT Force (Safety Manual Revision Task Force) to update the manual every 4-5 years to reflect important changes in industry as well as NESC and OSHA standards. The 16th edition of the Safety Manual was released in May 2017 and incorporates amendments to the federal regulations 29 CFR 1910.137 and 29 CFR 1910.26g.

Additional Resources

- **All-Hazards Guidebook (Free):** Helps in the development or continuous improvement of emergency preparedness programs and all-hazards planning efforts. The Guidebook walks readers through the five-step preparedness cycle, offers best practices and strategies for public power for each step, and outlines helpful planning resources.
- **Restoration Best Practices Guidebook (Free):** Offers guidance on public power best practices for restoration efforts, specifically focusing on preparedness, activation and initiation, operations, and cost recovery and mitigation.

In Production

- **Additional Tabletop in a Box Scenarios:** The scenarios will be as follows: wildfire, active shooter, and a cybersecurity exercise. These scenarios will be consistent with an all-hazards approach and will serve to enhance the APPA's Mutual Aid Program.

Questions?

Mutual Aid Team at APPA:

mutualaid@publicpower.org

APPA's Mutual Aid Website/Listserv:

publicpower.org/MutualAid

