

2011 Summer Reliability Meeting Mid Atlantic Mutual Assistance (MAMA) Group



Pat Conti - Duquesne Light Company

Weather Effects on Electric Utilities - (storm related, not including security, system network, Non-storm related outages (i.e. accidents) etc)

Snow – September to March

Ice Storms – October to March

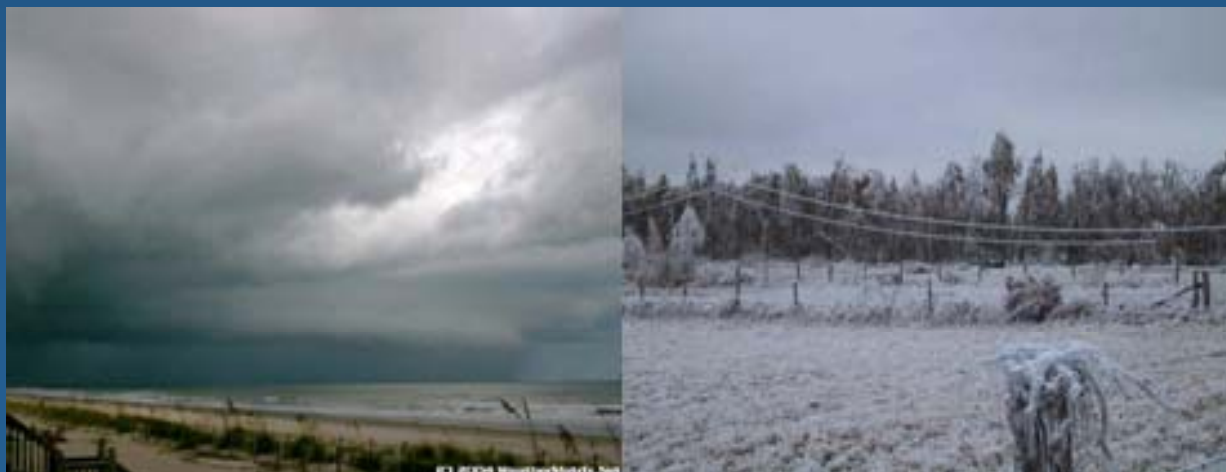
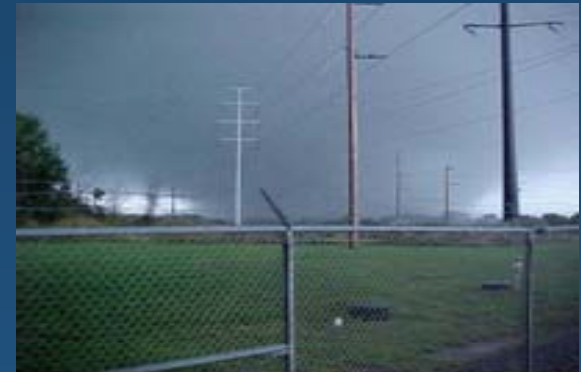
Lightning/Thunderstorms/Wind – Year Round

Micro and Macro Bursts – April to September

Tropical Depressions – June to October

Tornadoes – February to September

Flooding – Year Round



Modes of Emergency Preparations, Response and Evaluations

On-Going Preparations

Developing, revising, updating Emergency Plans
Reliability, Security, Restoration, System Restoration
Pandemic, Business Continuity, etc.

1

Utility meetings, conferences and
Internal and External Conference Calls

Exercises and/or Training

Monitoring and evaluating risks

Roles and Responsibilities

Modes of Emergency Preparations

Pre-Event Prepare/Initiate

Long-lead time storms allow greater pre-planning (hurricanes, blizzards)

Advance warning enables preparation by monitoring

Event Management

Consistent Process

Lessons learned from past events are being used

Communicate Mutual Assistance

Post Event Review and Correct

Internal evaluations of event (level is determined by event)

Safety

Personnel safety
is the #1 objective

**UNDER NO CIRCUMSTANCE
WILL SAFE WORK PRACTICES
BE COMPROMISED**

Includes the following but not limited to:

Qualifications

Fatigue

Weather Conditions

Road Conditions

Safety Checks of Work Practices

Electric Restoration Priorities – High Level Overview

Hazards

Substations and Circuits

Critical/Essential Customers

Large blocks of Customers

Individual Customers



Outage Updates to the PUC/PEMA

Updates are generally requested by the Commission 2 – 3 times a day:
Morning, Afternoon, Evening

Updates are supplied by utilities until all customers are restored.

If a major incident or change in status occurs, then additional notifications will be made to the PUC.



Mutual Assistance

- Electric Utilities call upon other companies for emergency assistance for situations such as , weather events, equipment malfunctions, accidents, sabotage, or any other occurrences deemed an emergency



What are Regional Mutual Assistance Groups (RMAGs)?

Group of companies with common operations when working together provide an advantage to all participants.

Could be any similar private sector organization such as

- Electric (IOU, State Specific Electric Sector, etc)
- Gas
- Telecommunications
- Water

RMAG purposes are

- Provide qualified labor
- Provide equipment/material
- Provide rapid response
- Provide scaleable response
- Provide a forum to discuss industry related topics
- NOT FOR PROFIT

Decision to form an RMAG have occurred in the past due to

- Regulatory rulemaking (normally state specific)
- Preparing for a event (i.e. Y2K, Presidential Inauguration)

Regional Mutual Assistance Groups (RMAGs)

Provides a forum to:

- Develop relationships (Honest, Sincere, Supportive)
- Set Safety expectations (Responding, On-site, Returning)
 - Arc Flash (CAL ratings)
- Determine and set expectations for effective and controlled response
- Coordinated regional restoration (Resource distribution among members)
- Understand and utilize established guidelines (i.e. EEI, SEE)
 - if needed, enhance guidelines to be more RMAG specific
- Share information and best practices
- Assure multiple RMAG interactions
- Minimize individual company risks
- AND improve State & County agencies relations
 - By educating the Regulatory agencies on the benefits of RMAG

RMAG (Regional Mutual Assistance Groups)

Great Lakes Mutual Assistance

New York Mutual Assistance Group

Texas Mutual Assistance

Midwest Mutual Assistance

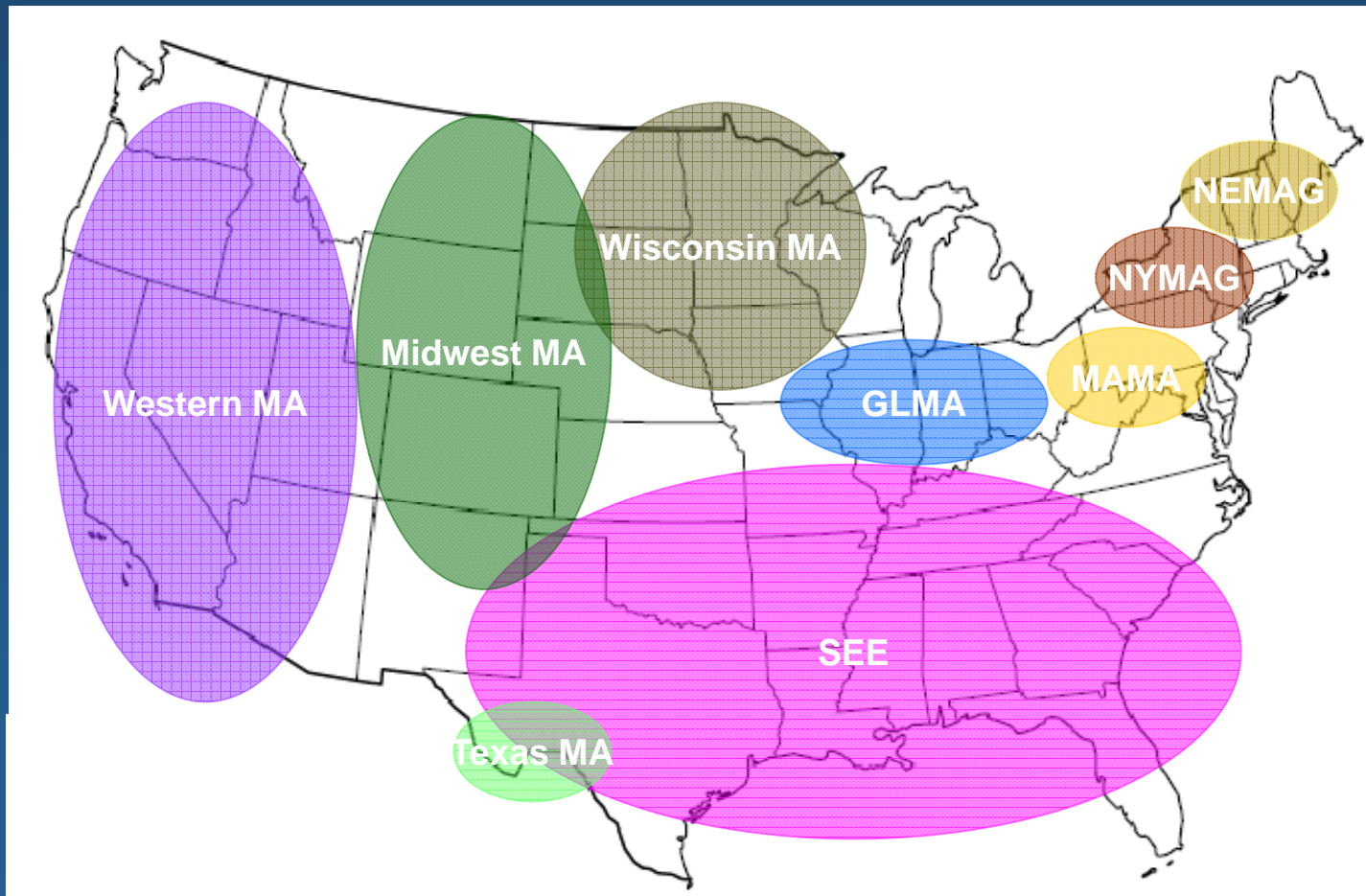
Northeast Mutual Assistance Group

Western Mutual Assistance

Mid-Atlantic Mutual Assistance

Southeastern Electric Exchange

Wisconsin Mutual Assistance



Mid Atlantic Mutual Assistance (MAMA) Group



Initiating MAMA Conference Call

- Conference calls are customized for specific event
- Calls are often scheduled twice a day
- Pre-event calls can start days prior to the actual threat
- Any MAMA member can request a call at any time
- Other utilities help in scheduling calls enabling a quick turn around

MAMA Conference Call

- Roll call
- Weather Forecast/Current Conditions
- System Problems
- Crew Availability or Need
- Other Utilities that contacted you for Mutual Assistance
- Governmental/Regulatory/Media Issues
- Other Issues
- Action Items
- Next conference call

DLC's Feb 5th, 2010 Storm: A record daily maximum snowfall amount of 11.4 inches was recorded in DLC territory on Feb 5th and a two day total of 21.1 inches. State of emergency declared for Allegheny County.



PECO's June 24th, 2010 Storm: Clocked wind speed registered at 59.8 mph and gusts were up to 74.8 mph between 15:26 and 15:34 in PECO territory.



Drexel Hill, Delaware County



Marple Township, Delaware County

Utility focus when assisting others

- is on assuring our assistance has little or no impact on our own customers

All Numbers Represent number of personnel and not trucks

For use by member companies only. Not for distribution

Tropical Storm Katrina		Assisting to Non-MAMA/NYMAG Utilities								Crews available to Support MAMA/NYMAG						
MAMA/NYMAG Company Name	Company Name Assisting	No. Utility Line	No. Contract Line	No. Tree Per.	No. Patrol Per.Log	Tran	Support Staff	Release - Re-Assign (Company)	Release Date	No. Utility Line	No. Contract Line	No. Tree Per.	Trans	Stores	No. Patrol Per.	
MAMA/NYMAG Company Name	AP - Allegheny Power	Mississippi	0	0	0	0	0		9/12/2005	50	30	100	20	2	20	
		Entergy	0	0	271	0	0	0								
	BGE - Baltimore Gas and Electric	Entergy	46	50	0	0	0	18			0	0	0	0	0	0
		Cleco	0	63	39	0	0	0								
		Mississippi	0	0	125	0	0	0								
	PHI - Conectiv/PEPCO	Alabama	0	0	0	20	0	0								
		? FPL	0	0	50	0	0	0			0	0	0	0	0	0
		Southern	0	70	0	0	0	0								
	MAMA Great Lakes	DLC - Duquesne Light	Mississippi	40	0	0	0	0	18							
Support MAMA NYMAG			0	0	10	0	0	1			30	0	0	0	0	0
FE - First Energy		Entergy	73	0	60	0	0	0			50	50	0	0	0	0
		?	0	120	136	0	0	0								
MAMA NYMAG	PECO	Entergy	28	0	22	0	0	0								
		? FPL	0	0	50	0	0	0			0	0	0	0	0	0
	PECO - COM Ed	Mississippi	38	0	0	0	0	12								
		Entergy	0	0	50	0	0	0	Assumed FPL to Entergy							
	PPL	Entergy	0	45	12	0	0	0								
	PSE&G	Entergy	64	93	0	12	0	38			30	0	0	0	0	0
UGI	Mississippi	0	0	0	0	0	0		9/10/2005	0	0	0	0	0	0	
MAMA NYMAG	Orange & Rockland	Entergy	0	8	0	0	0	0								
		Mississippi	0	0	16	0	0	0			20	0	10	0	0	0
NYMAG	Central Hudson	SW Louisiana coop	0	10	0	0	0	0								
		Mississippi	0	0	10	0	0	0			20	0	0	0	0	0
	CON EDISON	Entergy	0	8	4	0	0	0			20	0	0	0	0	0
		Mississippi	22	22	20	0	0	9			-	-	-	-	-	-
	Energy East (NYSEG)	Support MAMA NYMAG								25	0	0	0	0	0	
	KEYSPAN	Southern?	0	30	30	0	0	0			30	0	0	0	0	0
	National Grid - New Eng	FPL	0	0	0	0	0	0								
	National Grid - NY Niag Mohk	Mississippi	0	106	0	0	0	0								
Entergy		0	14	0	0	0	0									
Northeast Utilities	Entergy	0	62	0	0	0	0			50	0	0	0	0	0	
	Mississippi	50	0	0	0	0	15			0	0	0	0	0	0	
Total		361	701	905	32	0	111			325	80	110	20	2	20	

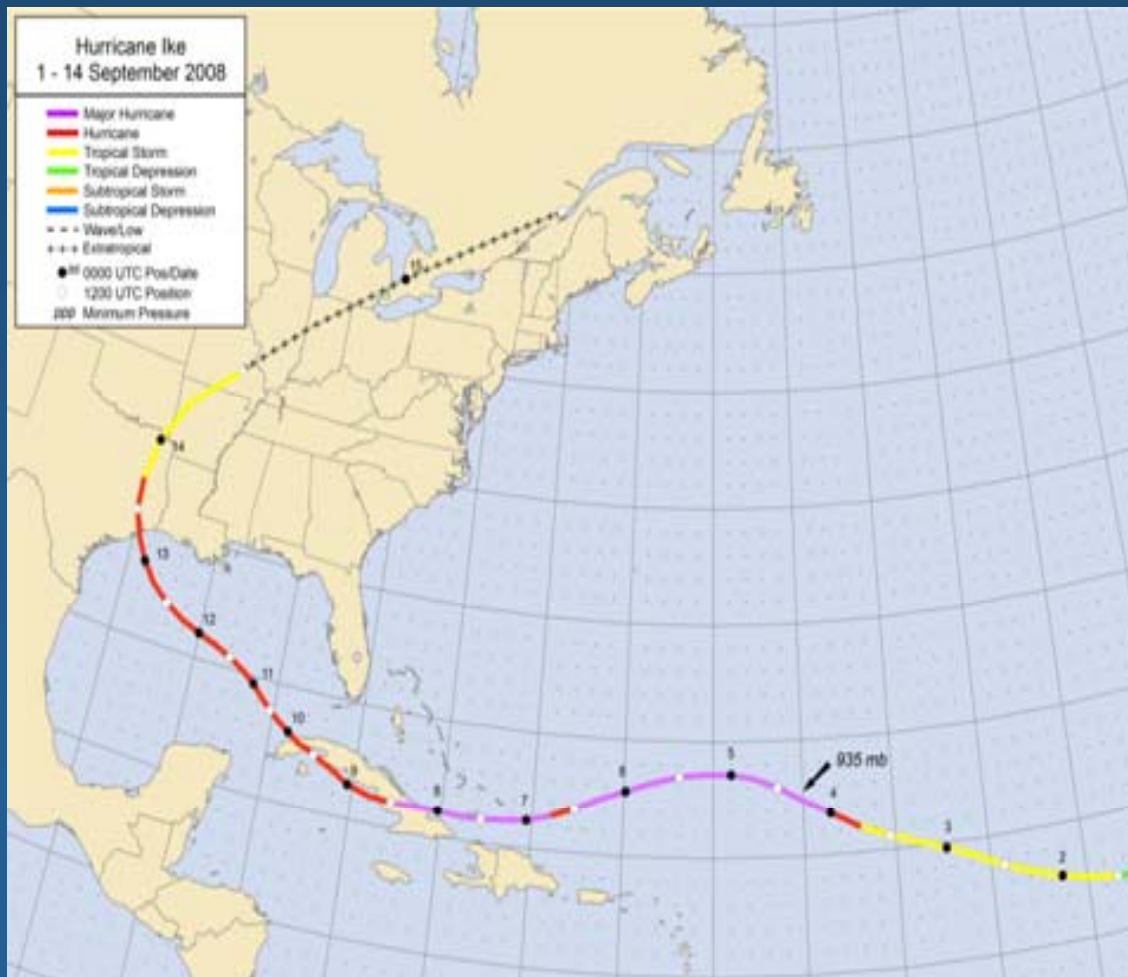
Revised 09/12/05 @ 0600

Total Resources 2,110

Hurricane Ike - September 1 - 14, 2008



Resources already engaged in Gustav restoration effort



Resource Strategy Planning Affected Areas

Texas, Louisiana
Oklahoma, Alabama
Mississippi, Arkansas

Additional States Affected
Ohio, Pennsylvania
Kentucky, Michigan, etc

RMAG Response

Southeastern Electric Exchange
Great Lakes Mutual Assistance
Midwest Mutual Assistance
Mid-Atlantic Mutual Assistance
New York Mutual Assistance Group
Northeast Mutual Assistance Group
Texas Mutual Assistance
Western Mutual Assistance
Wisconsin Mutual Assistance 18

Conclusion - Electric Utilities Work Together

To ensure a safe, effective and coordinated regional restoration for our customers

Mutual Assistance enables;

- Effective Resource Utilization
- Planning Primary and Secondary Transfers
- Common Staging Sites
- Real Time Communications via conference calls

**For the best interest of
Customers, First Responders, and Regulators**

Questions



Comments