



Emergency Operations Management

Prepare, Respond,
Communicate

Energy Delivery

Emergency Restoration Plan (ERP)

Energy Delivery ERP

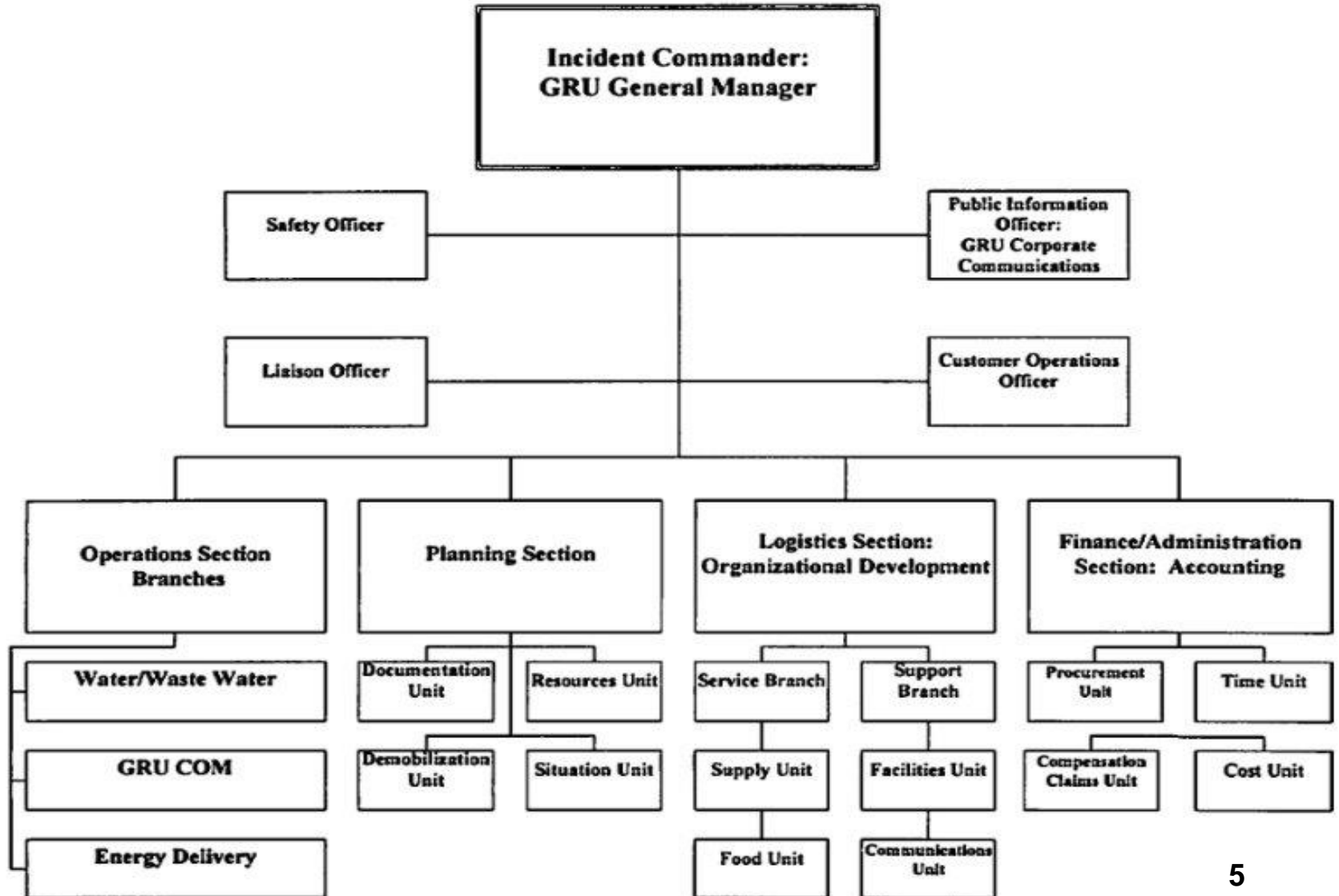
- Foundation & Guidance
 - Nearly 100 years of experience in Emergency Response and Operations
 - Federal Emergency Management Agency
 - State of Florida
 - Public Service Commission
 - Division of Emergency Management
 - Alachua County Office of Emergency Management
 - City Emergency Operations

Energy Delivery ERP

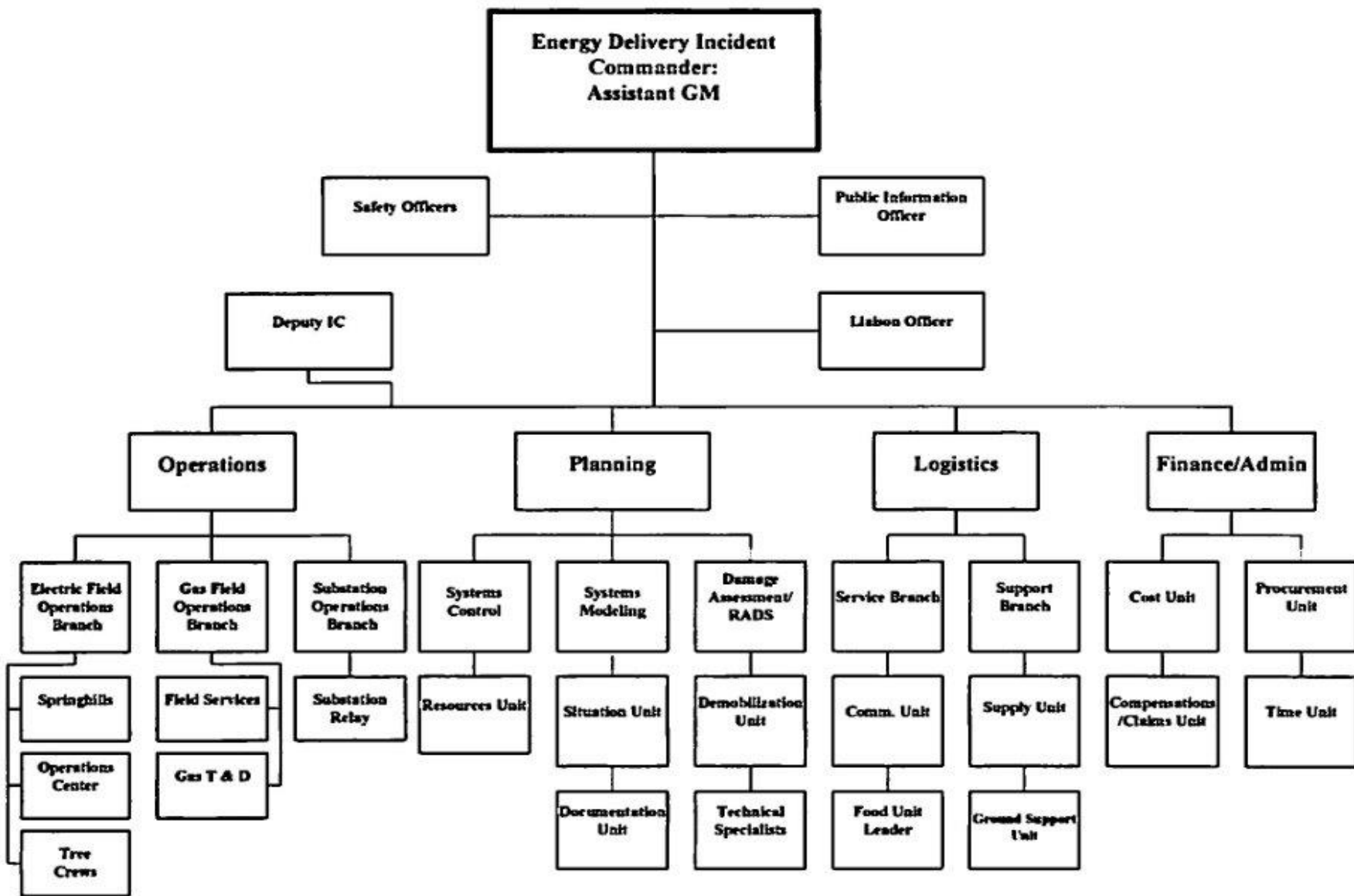
- Commitment
 - Prepare for system upsets, respond quickly and effectively, and communicate to all stakeholders
 - Interact cooperatively and effectively with all federal, state and local agencies
- Practice
 - City – March 2015
 - County/State Drill – May 2015
 - GRU – June 2015

Organizational Structure and Functional Responsibilities

GRU



Energy Delivery



Energy Delivery ERP

- Focus
 - Safety
 - Employee Training
 - Mutual Aid Contracts
 - Vendor Contracts
 - RADS & DADS Training
 - Public Information
 - Communication Platforms

Energy Delivery ERP

- Restoration Timeline
 - Monitor National Weather Service
 - Preparation Meetings, start 96 hours in advance
 - Public Service Announcements (PSAs)
 - Staff Emergency Operations Centers as required
 - Develop storm ride-through strategy and default report-to-work time
 - Begin restoration when safe

Energy Delivery ERP

- Restoration Priorities
 - Generation / Supply
 - Transmission System
 - Substations
 - Critical Customers & Distribution System Circuits
 - Remaining Distribution Circuits, Main Line
 - Distribution Laterals
 - Services

Energy Delivery ERP

- Critical Customers & Distribution System Circuits
 - Water & Wastewater Plants
 - Hospitals, Critical Care Facilities
 - Emergency Alert System (RUF)
 - Public Safety Facilities (Police & Fire)
 - Correctional Facilities

Energy Delivery ERP

- Operating Periods
 - 24 hr/day operation
 - Generally two operating periods per day
 - Typically of unequal periods
 - Day shift of 16hrs
 - Night shift of 8hrs

Energy Delivery ERP

- Rapid Assessment of Damage (RADS)
 - Day 1, high level and very fast assessment of system damage.
 - Electronic tabulation of manpower and material required to restore system.
 - Results used to determine the amount of mutual aid needed to augment our resources.
 - Initial restoration estimate derived. Estimate will vary based on discovered damage & mutual aid availability.

Energy Delivery ERP

- Detailed Assessment of Damage (DADS)
 - Detailed and thorough assessment of system damage
 - Electronic tabulation of manpower and material required to restore system
 - Results used to refine the mutual aid resources needed to augment our staff
 - Refined estimated time of restoration by circuit computed. Estimate will vary based on discovered damage, mutual aid availability, materials and weather.

Energy Delivery ERP

- Communications
 - Pre through post system upset
 - Internal and external updates
 - Hourly then periodic facilities status reports
 - ACEOC and CEOC lines of communication open
 - Call center(s) active (24 x7)
 - Interval action plans distributed
 - Restoration timeline calculated and distributed
 - Pipelines: Corporate Communication and news/
social media

WATER/ WASTEWATER

Water/ Wastewater Systems

- Drinking Water
 - Murphree WTP: provides drinking water to ~190,000
 - 1,117 miles of distribution pipe covering 118 sq miles
- Wastewater
 - 2 Water Reclamation Facilities
 - 168 Wastewater Lift Stations
 - ~800 miles of collections pipe covering 115 sq miles

Prepare

- System Design
- Emergency Preparedness Plan
- Training
- 5 day Prediction Cone
- 1st 72 hours
- Positioning of Resources
- Vendor Coordination



Respond

- Restore Water & Wastewater Service
 - Community health, safety and welfare
- Emergency Preparedness Plan
 - Personnel: All 1st Responders
 - Roles and Responsibilities
 - Equipment
 - Material
- Field Assessment
 - Triage
- Work Order Assignment



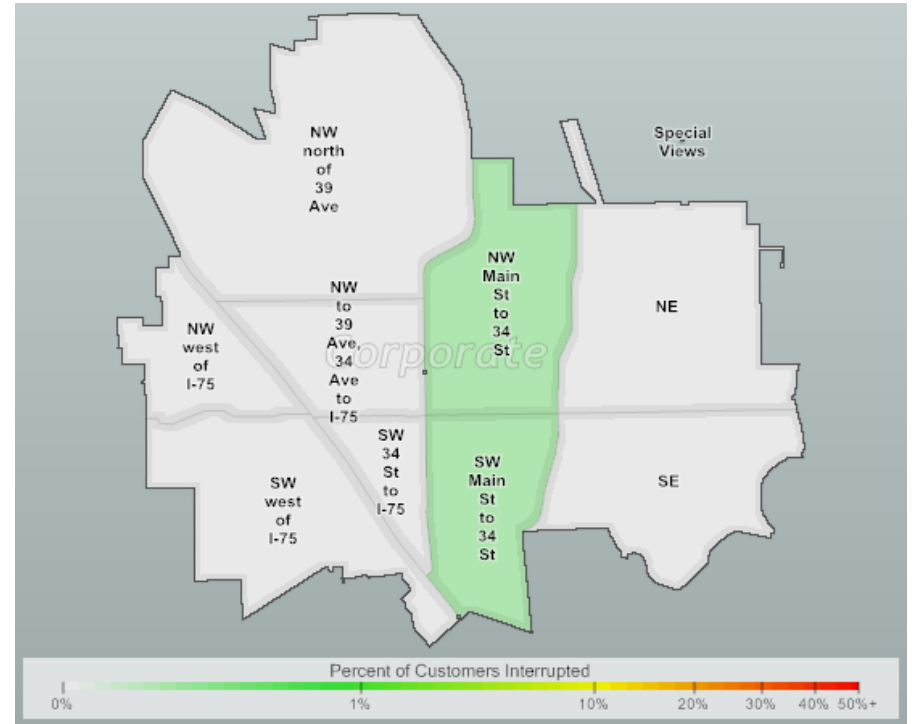
Communicate

- Dispatch Centers
- SCADA
- Mutual Aid
- FlaWARN and Regulatory Agencies
- Local/State/Federal Public Safety Authorities
- Corporate Communications
 - News and Social Media
- After Action Assessment

CUSTOMER/ EMPLOYEE COMMUNICATIONS

Year-Round

- Storm Season
- Ongoing General Messaging
 - www.gru.com
 - Electric Outage Map
 - Twitter
 - Facebook



<http://www.gru.com/StormCentral>

Start of Hurricane Season (June – November)

- Web
 - Storm preparedness; hurricane guide, safety checklist, restoration information and power outage map
- Print
 - Newsletter, newspaper, storm guide
 - TV & radio



Customer Communications

Imminent Storm

- Before
- During
- After



Hurricane Jeanne (2004)

Before the Storm

- Internal information systems activated
 - Employee emergency information phone line, text messaging and email
 - All communication tools tested
- Communication channels established between GRU personnel, external officials

Before the Storm

- Review/ prepare communication tools
 - Pre-recorded TV and radio spots ready for activation
 - Scripts for Public Service Announcements (PSAs)
 - Pre-drafted news releases
- Update www.gru.com, Twitter and Facebook
- Participate in news conferences as needed
- Work with GM to keep local officials informed

During the Storm

- Activate pre-recorded TV and radio spots
- Update www.gru.com, Twitter and Facebook
- Participate in news conferences as needed/
update news media
- Information collected, documented and
distributed
- Update employees
- Work with GM to keep local officials informed

After the Storm (restoration)

- Activate pre-recorded TV and radio spots
- Assist all departments in communicating with customers and employees as needed
- Participate in or arrange news conferences to report damage, restoration efforts and timing
- Update www.gru.com, Twitter and Facebook
- Update employees
- Work with GM to keep public officials informed

After the Storm (return to normal)

- Evaluate

Questions?