

The Academy – BNL Northeast Emergency Management Academy

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Resiliency

- Hardening/Resilience options
 - Asset hardening
 - System design
 - System operations
 - Repair scheduling
 - Emergency operations
- This presentations focus is on **Emergency Operations** through comprehensive and immersive training

Concept

- **The Brookhaven National Laboratory Northeast Emergency Management Academy**
 - Provide a comprehensive and immersive training on emergency and incident management.
 - Academy run as an Incident with an IMT following the “Planning P”
 - Allows for tasks in a task book to be signed off
 - Our training goals will be achieved through a combination of individual and team training.
 - Qualify students through the performance-based qualification system implemented for Incident Management Teams by the Federal Emergency Management Agency.
 - Train utility emergency managers on the process that the levels of government and communities utilize.

Academy Partners

- A partnership between BNL and 2 small businesses
 - AlphaTrac – An emergency management firm that provides:
 - Emergency Management Solutions
 - Training Solutions
 - Technical Solutions
 - A.W. Webber – A firm that provides:
 - Incident Management Instruction from Type I and Type II Incident Management Team members
 - Exercise facilitation
 - Team coaching during incidents
 - BNL – World Class Research Facility
 - Research in damage prediction tools
 - Research in Grid processes
 - Expertise in RDD Planning
 - Experience in exercise development and facilitation
 - Experience in training

Academy Guidance

- Formation of an Advisory Committee (in process)
- Advisory Committee to provide:
 - Processes
 - Gaps
 - Trends
 - Needs
- Advisory Committee to come from the energy sector

Focus

- Chemical, biological, radiological, nuclear, explosives (separate Advisory Committee)
 - Large scale incidents
 - Multi-operational
- Strategic
 - Managing incidents
 - Individual training
 - Team training
 - Training the Planning Process
 - Identify processes where operations can become more efficient
- Energy Infrastructure Emergencies
 - BNL's experience in energy, energy infrastructure, atmospheric and environmental sciences, and CBRNE

Integration of BNL Scientific Research into Training

- BNL research on Radiological Dispersal Devices
 - Proposal submitted to DHS to develop training program
- Working with AlphaTrac on developing AlphaAct Grid and AlphaAct RDD
- Ability to take research and developed training programs to deliver the training to utility emergency managers

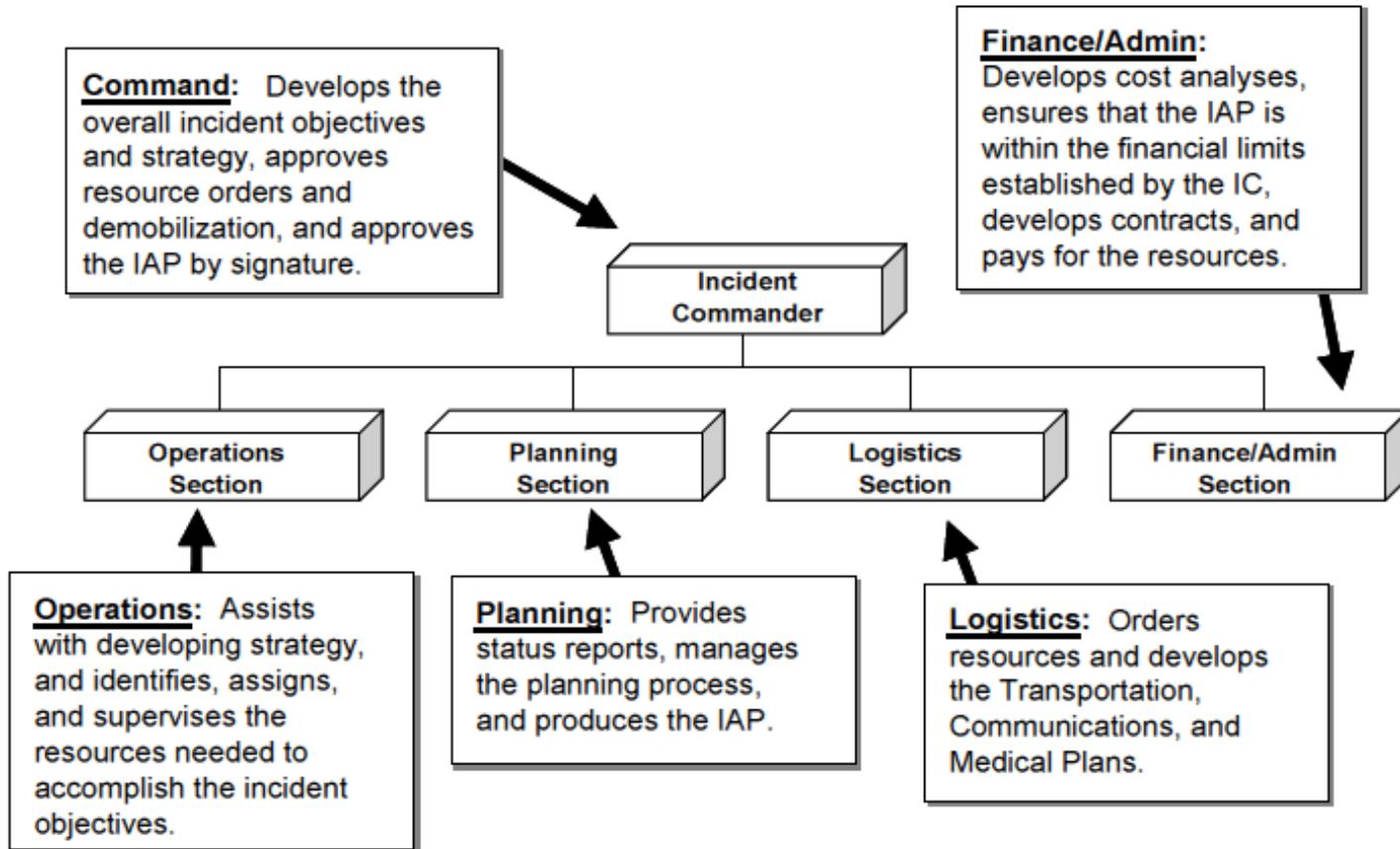
How Can the Academy Increase Resiliency?

- Train utilities in the process that FEMA uses, along with states and communities
- Train an Incident Management Team (IMT)
 - Using FEMA training
 - Integrate specific scenarios to support target audience
 - Develop drills and exercises to validate training and qualifications
- Support the completion of FEMA's All Hazard IMT Task Book
 - Qualifications Based Management System
 - Nationally implemented
- Keep an IMT and Emergency Operations Center well-trained
 - Develop and conduct drills and exercises

Overview of Process

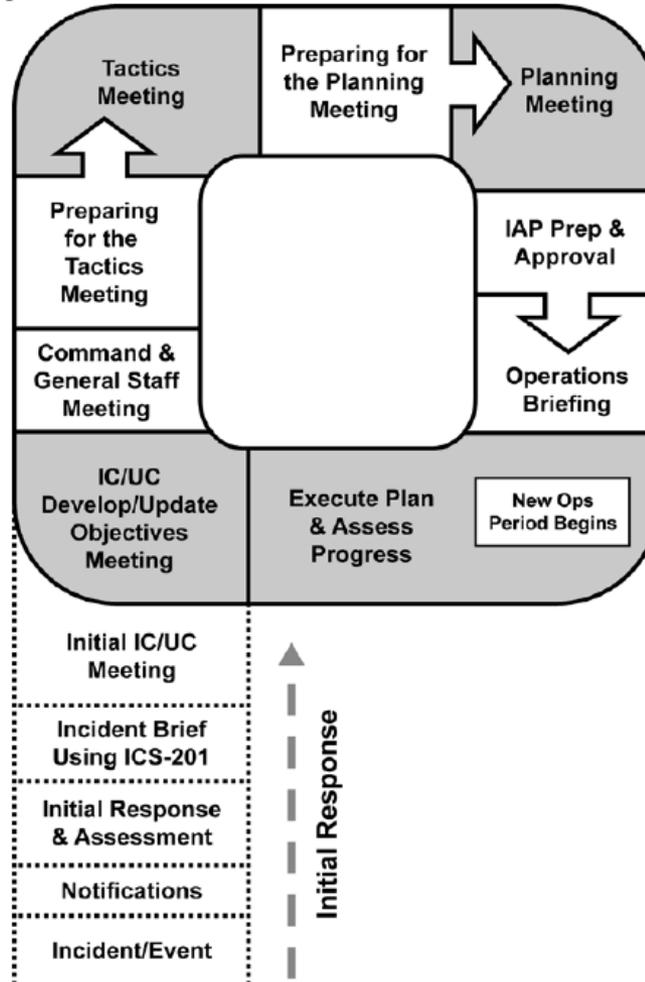
- Incident Command System
 - Why – The state and locals have adopted ICS as the way they will respond to events
 - A process where responsibility is not given up, but retained
 - A process that facilitates unified operations under a single plan when possible
 - A process where response organizations can understand each organizations response
 - Where issues can be discussed and resolved
 - Flexible and adaptable to each situation

The Incident Management Structure



The Planning P

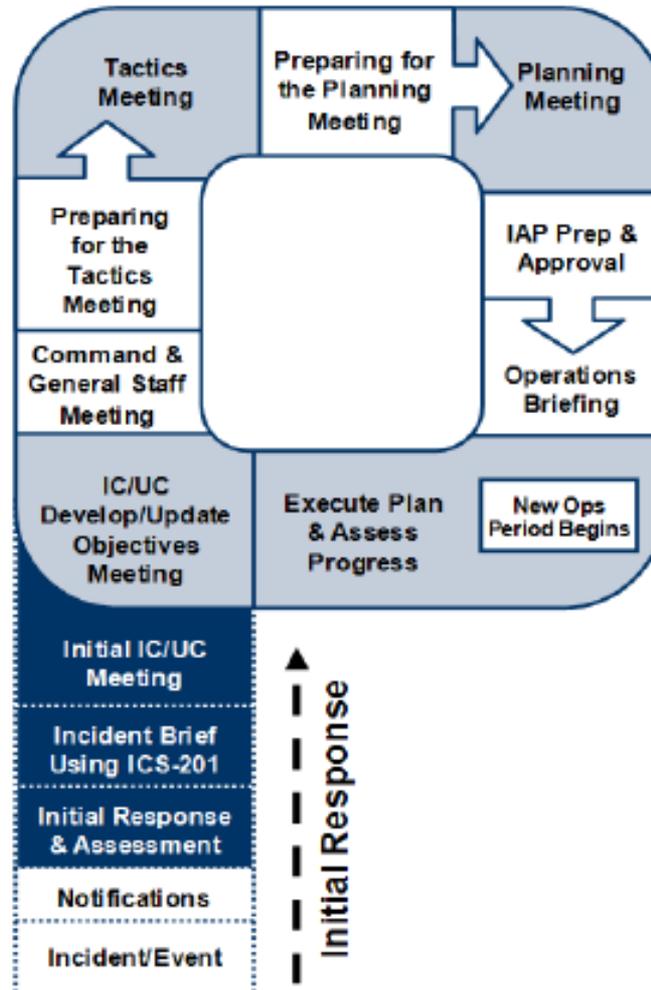
The Planning "P"



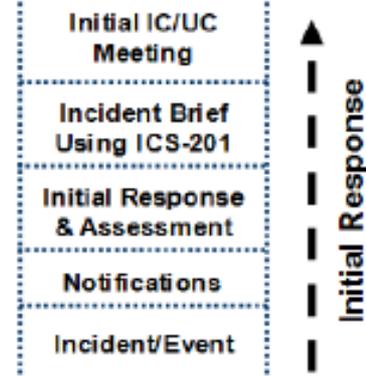
The Planning Process

- The following involves the planning process:
 - Evaluating the situation
 - Developing Incident Objectives
 - Selecting a Strategy
 - Deciding which resources should be used to achieve the objective in the safest, most efficient and cost-effective manner
- How many utilities already follow a similar process?

The Planning – Initial Response



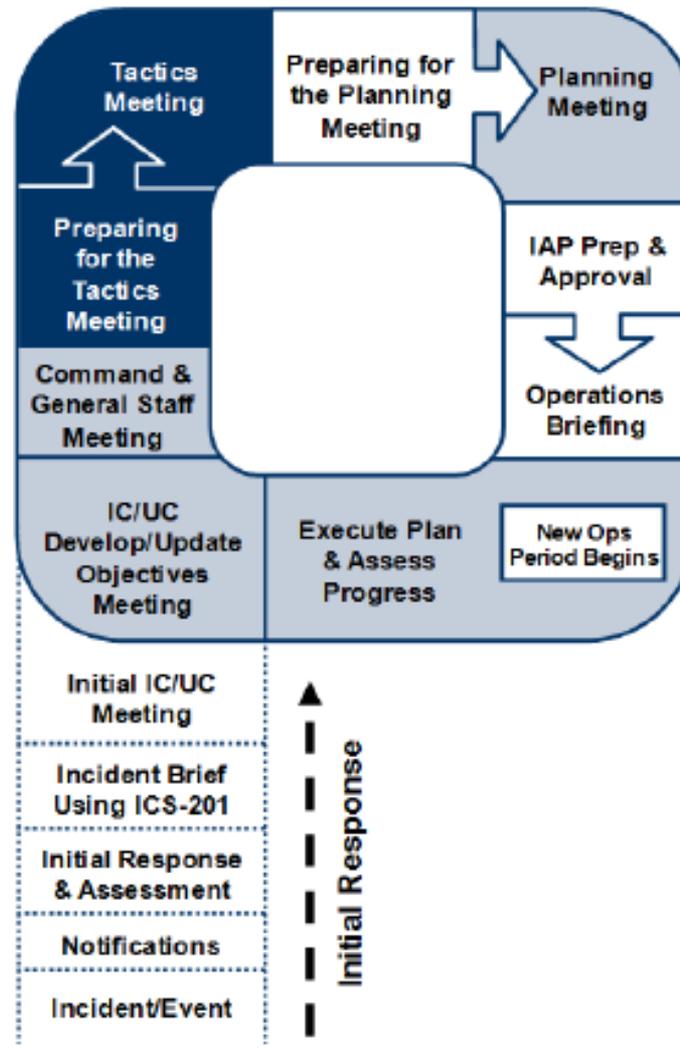
The Start of Each Planning Cycle



Starting each Planning Cycle

- IC/UC Objectives Meeting
 - Establishes the Incident Objectives
 - May not be accomplished in one operational period
 - May cover life of the incident (e.g. safety)
 - Tactics are developed off of objectives
 - Command and General Staff Meeting
 - Cover immediate issues
 - Gather input
 - Provide immediate direction

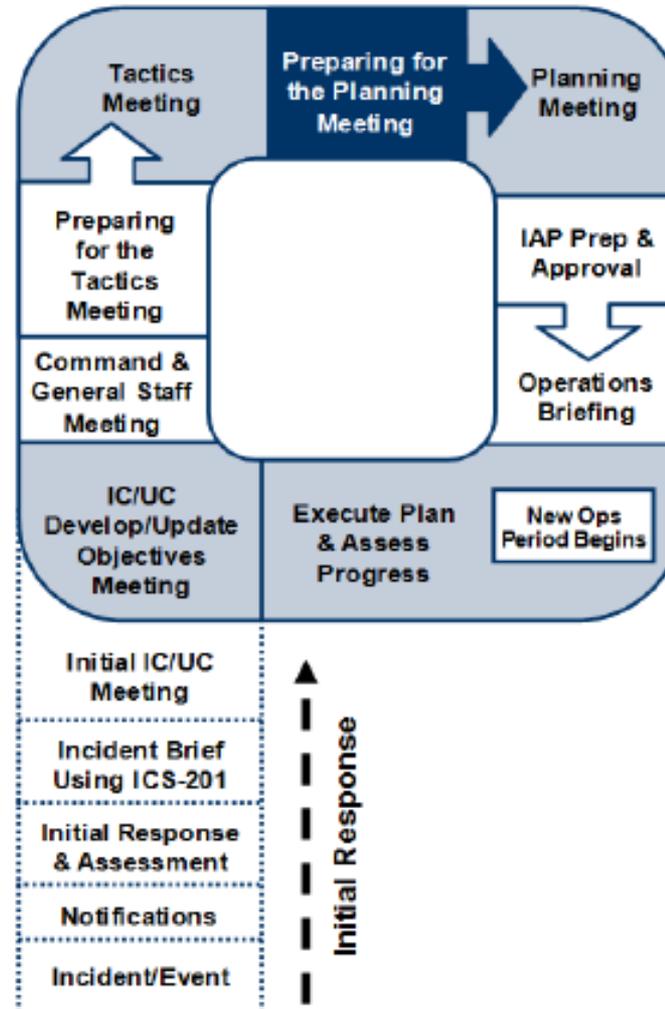
Tactics Meeting



Tactics Meeting

- Review tactics developed by the Operations Section Chief
 - Determine how the selected strategy will be accomplished in order to achieve the incident objectives
 - Assign resources to implement tactics
 - Identify methods for monitoring tactics and resources to determine if adjustments are required
- Present are: Operations Section Chief, Safety Officer, Logistics Section Chief, Resources Unit Leader (planning)
- Products: Operational Planning worksheet (ICS 215) and Incident Safety Analysis (ICS 215A)

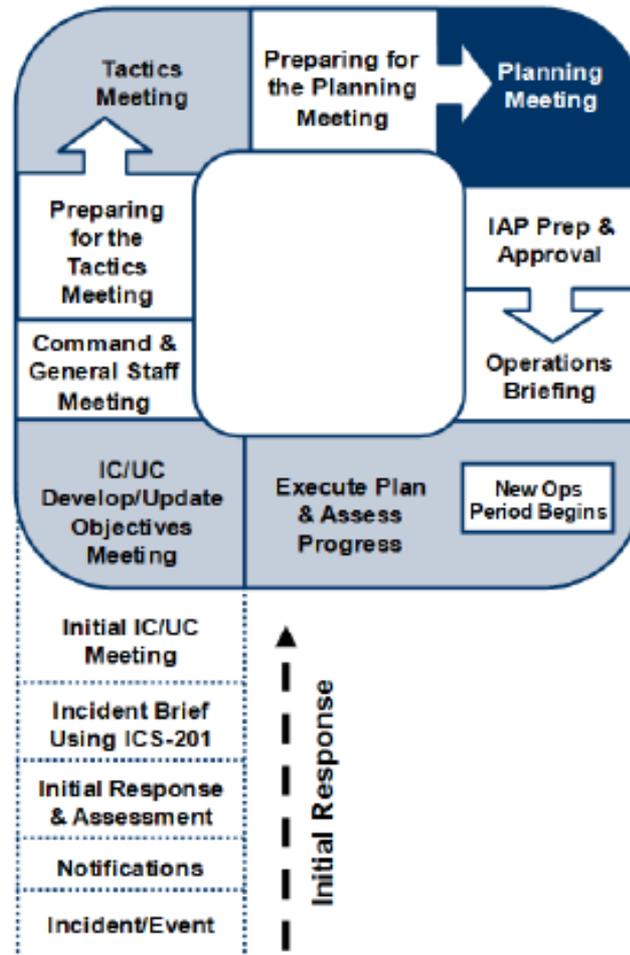
Preparing for the Planning Meeting



Preparing for the Planning Meeting

- Coordinated by the Planning Section
- Following actions taken:
 - Review Operational Planning Worksheet
 - Review the Incident Safety Analysis
 - Assess current operations effectiveness and resources efficiency
 - Gather information to support incident management decisions

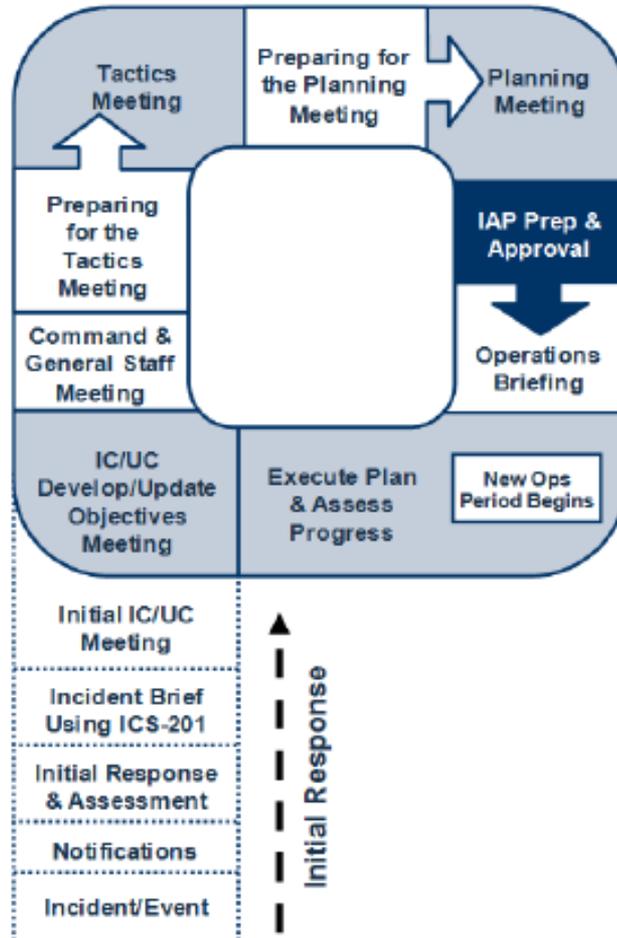
The Planning Meeting



Planning Meeting

- Provides the opportunity for the Command and General Staff to review and validate the operational plan proposed by Operations
- Attended by all Command and General Staff
- Facilitated by the Planning Section Chief
- Operations Section Chief delineates the amount and type of resources needed, Resource Unit and Logistics have to accommodate
- At the end of the meeting, Planning Section Chief ensures that each elements of the organization can support the plan

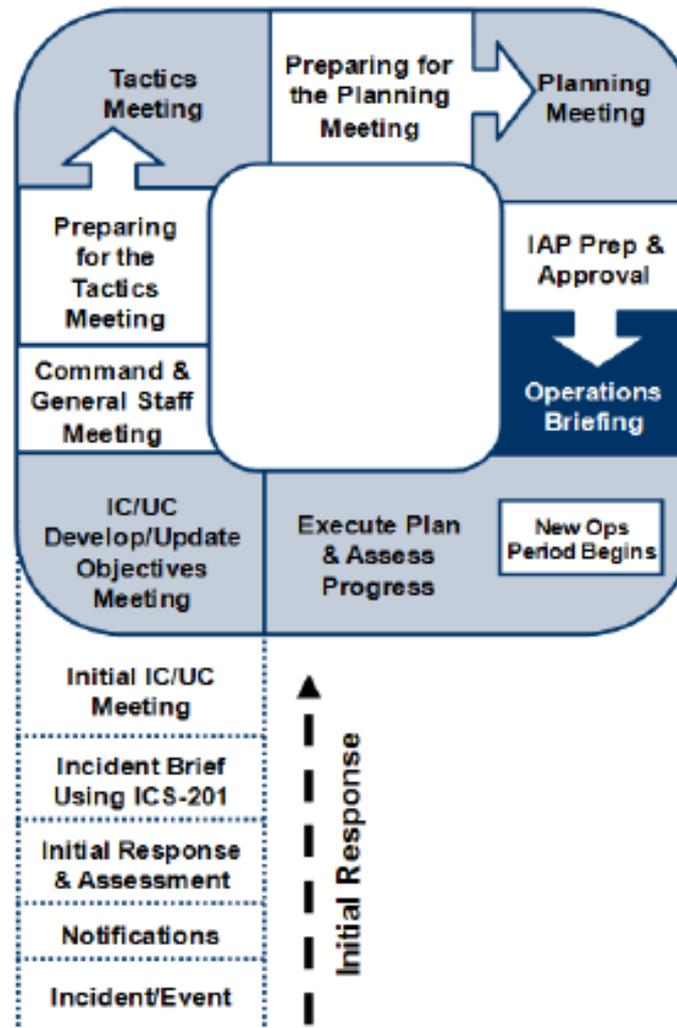
IAP Prep and Approval



IAP Prep and Approval

- Approved by Incident or Unified Commander
- IAP is made up of a series common forms and supporting documents

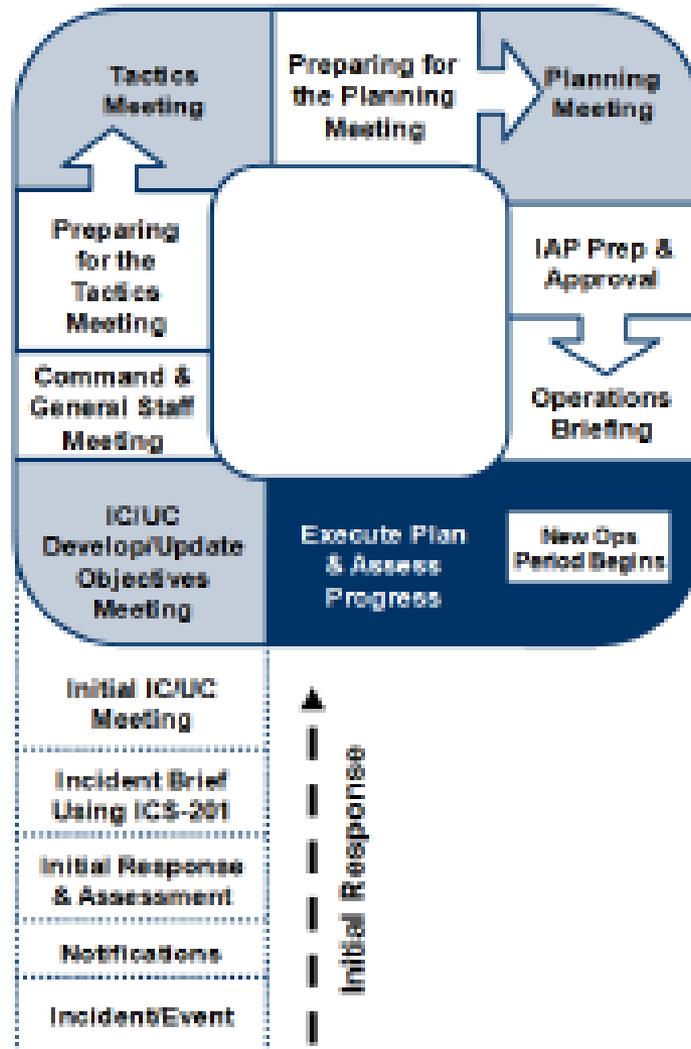
Operations Period Briefing



Operations Briefing

- Done at the beginning of an operational period or shift
- Briefs the IAP and operations
- On large incidents, supervisors only attend and are expected to brief their crews

Execute Plan and Assess Progress



Execute Plan and Assess Progress

- Operations Section directs the implementation
- Plan is evaluated for effectiveness
 - Adjustments can be made immediately or
 - Made at the next operational period
- Goal – To meet the Incident Objectives

What is in an IAP

- Incident goals (where the response system wants to be at the end of response)
- Operational period objectives (major areas that must be addressed in the specified operational period to achieve the goals or control objectives)
- Response strategies (priorities and the general approach to accomplish the objectives)
- Response tactics (methods developed by Operations to achieve the objectives)
- Organization list with ICS chart showing primary roles and relationships
- Assignment list with specific tasks
- Critical situation updates and assessments

What is in an IAP Continued

- Composite resource status updates
- Health and safety plan (to prevent responder injury or illness)
- Communications plan (how functional areas can exchange information)
- Logistics plan (e.g., procedures to support Operations with equipment, supplies, etc.)
- Responder medical plan (providing direction for care to responders)
- Incident map (i.e., map of incident scene)
- Additional component plans, as indicated by the incident.

Question

- Does this process appear to familiar?

Immersive Training

- The Academy will expose students to the Planning Process
- Give students a role in the incident management structure to understand the role in the planning process
- Learn the development of an Incident Action Plan
- Learn the implementation of an Incident Action Plan
- Allow a management team to “Run” the Academy
 - Academy will be run as an incident
 - Will follow an Incident Action Plan planning process, with a training team developing the Incident Action Plan

Understanding Community Emergency Management

- This could lead to better interaction and understanding of priorities between the community and utility
- Could lead to the integration of incident planning, to prioritize restoration on an incident by incident basis
- A documented processes approved by both the utility and community on a operational period basis
- Branch Tactical Planning – Concept in ICS, major incident management

How could this increase Resiliency

- Using the same processes that the FEMA, State, and Local utilizes
- Ensures that issues are identified in the planning process – Tactics Meeting, Planning Meeting
- Document the process in standardize forms (Intent of form, not must use the form as designed)
- Increase the communication between utility and community in the planning process

Status and Future

- Planning on hosting the first Academy at BNL on April 13 to the 17th.
 - Will be five day academy (not all classes will be 5 days)
 - Focus on ICS along with Command and General Staff Training
 - Training on the planning process
 - Exercising the planning process
- Create Advisory Committee
 - Invitations to be sent out by the middle of November
 - First Advisory conference call middle of December
- As research projects are developed and proven, if this could support utilities, these will be added into training courses

Questions?

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