NEFDA Regional Emergency GIS Response Team

GIS Managers from the NEFDA member cities obtained certifications and training to respond to emergency situations and provide mapping support

NIMS / ICS Training

- Each participant must complete ICS training levels 100 and 700

Emergency Management Institute

FEMA

This Certificate of Achievement is to acknowledge that

DAVID W ALLEN GISP

has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the independent study course:

IS-00100
Introduction to the Incident Command System,
(ICS 100)

Issued this 27th Day of September, 2007

Cortez Lawrence, PhD
Superintendent
Emergency Management Institute

0.3 CEU

GIS Drills

- Over the past few years we have been conducting emergency response drills
- Participants are guided through a response scenario and asked to produce maps that might be required
- We use the Mobile Command Post and all on-board facilities – the same as would be used in an actual response

Mapping Capabilities

- Pictometry
  - Obliques
  - Orthos
  - Markups
- ArcGIS
  - Preset Templates
  - Custom Symbology
  - Pictometry Integration
- WebEOC available with satellite Internet

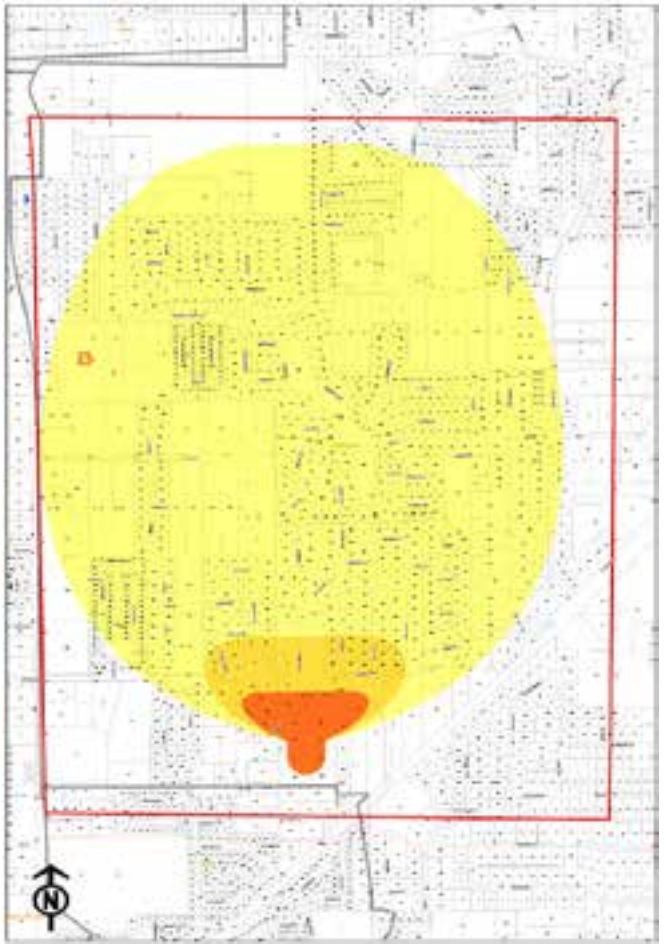
NEFDA Dataset on DVD

- Parcels with addressing / ownership
- Street Centerlines for Geocoding
- Fire Hydrant Locations
- Rivers / Streams
- NCTCOG “Locations” File
  - Hospitals
  - Nursing Homes
  - Schools
  - Etc…

Network Capabilities

- Data Ports around MCP
- Full Networking
- Internet Access via Satellite
- Shared Printers
  - 8 ½ x 11 Fax / Scan / Print
  - 13” x 19” Color Printer
  - 36” x 24” Color Plotter

Large and Medium format plots



Mobile Command Post

Mapping Room

Touch Screen Panel

Printer – 13” x 19”

Plotter – 36” x 42”

Emergency GIS Response Team

- The Team is:
  - Trained
  - Certified
  - Ready to respond
- We are as important a team as the Haz-Mat team, the Bomb Squad, the Swift Water Rescue, or any of the other specialty response teams.

Emergency GIS Response Team

- How would you go about setting up a response team?

  There are some important considerations to make sure that you are successful.

Emergency GIS Response Team

- Sponsor - Who is your sponsoring agency?

  Although you can do a lot on your own, a sponsoring agency that can supply equipment and funding is critical. This also gives a point of contact for deployment.

Emergency GIS Response Team

- Members – who will be on your team?

  We require that all members obtain ICS 100 and ICS 700, and ICS 200 for team supervisors.

  Will you restrict this to public sector only, or allow private sector personnel to participate?

  Members MUST attend training and drill on the response equipment to remain on the active roster.

Emergency GIS Response Team

- Members – who will be on your team?

  Rate each member's skill level to determine call-up status and/or job function.

  Prepare a call up list for activation. Have weekday, evening, and weekend crews established.

  Obtain entry credentials from your sponsoring agency.

Emergency GIS Response Team

- Equipment – What equipment do you need or have access to?

  Your sponsor should help with obtaining, storing and maintaining equipment.

  Keep an inventory of all computers, printers, supplies, software, etc… and their locations.

  Rolling stock – got any?

Emergency GIS Response Team

- Data – What do you need and how can you get it?

  Tackle this problem in advance. You'll need data for your drills and exercises.

  You DO NOT want to perform massive data collection tasks while you are on-site in an emergency!

  Compile the data and make it available to all participants.

Emergency GIS Response Team

- Data – What do you need and how can you get it?

  Streets

  Parcels w/ ownership

  Rivers/lakes/streams/ponds

  Address locator

  Regional amenities (schools, hotels, banks, etc…)

  Much More!!

Emergency GIS Response Team

- Data – What do you need and how can you get it?

  Make backups of the data.

  Create pre-symbolized templates that can be brought up and used quickly.

  Establish a procedure for updating the data.

Emergency GIS Response Team

- Software – What tools can you get and use?

  Use the drills to decide what your software needs are.

  GIS Software

  Aloha plume tracking

  HAZUS mapping

  Pictometry

Emergency GIS Response Team

- Documentation – Keep records and SOP manuals

  Document all of your drills.

  Have the operating manuals for all hardware.

  Prepare troubleshooting tips for printers / plotters

  Maintain the call-up information

  Prepare a mapping checklist.

Emergency GIS Response Team

- Activation Protocol – How is the team activated?

  What level of incident will activate the team?

  Who is the single point of contact?

  How many operators do you mobilize at a time?

  Who is mobilized first?

  How are multiple operational periods handled?

Emergency GIS Response Team

- Marketing – Let the responding agencies know what you have to offer.

  Prepare an activation package that you can give to responding agencies.

  Include information on how to call for activation.

  Include a list of capabilities and certifications.

  Put on demonstrations when possible.

  Your sponsoring agency can help marketing.

Emergency GIS Response Team

You'll have some work to do to get the team built and gain the respect of the emergency response community. But once you are established, you will become a regular part of that world so be ready!

Emergency GIS Response Team

- Thank You, and good luck setting up your response team!!

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