Panel Discussion: House Bill 7121

Eve Rainey, Moderator - FDEM
Carla Boyce, Preparedness Section Administrator - FDEM
Chuck Hagan, Unified Logistics Chief - FDEM
Danny Kilcollins, Facilities Unit Manager - FDEM
Patrick Odom, Hurricane Program Manager - FDEM
House Bill 7121
Chapter 2006-71, Laws of Florida

HB-7121 – House Committee on Domestic Security
Vehicle for Comprehensive Disaster Preparedness Issues
Includes Issues/Proposals from HB-7139, SB-528, SB-862, SB-860, SB-1058 …
Thirty Sections Included in the Bill
HB-7121

DEM Feasibility Study of Non-Government Entities Coordination for Essential Commodities
Operational Guidelines for Retail Entities
DEM Inventory of Portable Generators
Emergency Power Capabilities for Fuel Terminals, Retail Fuel Outlets, Residential Multi-Story Facilities
Voluntary Disaster Motor Fuel Supplier Program
HB-7121
Special Needs Provisions

Expands Definition of Special Needs Client
Clarifies Special Needs Shelter Operations
Enhanced Special Needs Registration
Clarifies Special Needs Shelter Staffing
Includes Discharge Planning Team
Allows for Alternative Licensing
Clarifies Emergency Plan Criteria/Review for Home Health Agencies, Nurse Registries, Hospices
HB-7121
Special Needs Provisions

Adds Emergency Planning Requirements for Durable Medical Equipment Providers
Includes Provisions for Prescription Refills
Requirement for Strategies for People with Pets in State and Local EM Plans
Directs Inclusion of Pet Shelters and Estimate of Special Needs Shelter Demand in Statewide Emergency Shelter Plan
HB-7121
Funding Provisions

Special Needs Generators - $ 52.8 Million
Shelter Retrofit - $15 Million
Evacuation Plans/LiDAR - $29 Million
Warehousing/Logistics - $6.5 Million
Emergency Public Education/Information
$3.4 Million
Feasibility Study $ 76,150
House Bill 7121

Logistics Section Related Projects
The State Division of Emergency Management will establish a system of emergency staging and warehouse capacity for commodities will help ensure that adequate supplies, equipment, and commodities are available and accessible for purposes of responding to disasters.

FDEM is finalizing the lease of a 180,000 square foot facility in Orlando, FL to serve as the State LRC.

Maintain adequate commodities, supplies and some equipment as well as a Logistics Operations Center and permanent State Logistics Staging Area for 250+ semi-truck trailers.
State Resource Management
Enterprise Network

- Fully automate the process of resource management for the entire State.
  - Acquisition through final distribution
  - Statewide Resource Data Base (State, Local, VolAg and Contractors) cross access to FEMA Network
  - Inventory Management (2D Bar Code and RFID)
  - Cost accounting
  - Tied to mission request process
  - Eight satellite based field networks to support State LSA’s

- The enterprise network will be web based, and permit access to all state agencies, counties, appropriate federal agencies and state contract vendors, all who provide products and services both day-to-day and during times of emergencies.

- System rollout in May 2007 with field tests during the statewide hurricane exercise.
Unlike Section 526.143, Participation in the program shall be at the option of each county governing body. In counties choosing to participate in the program

The local emergency management agency shall be primarily responsible for administering the program within those counties. Nothing in this section requires participation in the program.

In participating counties, the Florida Disaster Motor Fuel Supplier Program shall allow any retail motor fuel outlet doing business in those counties to participate in a network of emergency responders to provide fuel supplies and services to government agencies, medical institutions and facilities, critical infrastructure, and other responders, as well as the general public, during a declared disaster as described in s. 252.36(2).
Florida Disaster Motor Fuel Supplier Program

- Retail motor fuel outlets doing business in participating counties that choose to become members of the Florida Disaster Motor Fuel Supplier Program must be able to demonstrate the capability to provide onsite fuel dispensing services to other members of the State Emergency Response Team within 24 hours after a major disaster has occurred and agree to make such service available as needed.

- Retail motor fuel outlets doing business in participating counties that choose to become members of the Florida Disaster Motor Fuel Supplier Program must be able to demonstrate the capability to provide onsite fuel dispensing services to other members of the State Emergency Response Team within 24 hours after a major disaster has occurred and agree to make such service available as needed.

- Counties that choose to participate in the Florida Disaster Motor Fuel Supplier Program may charge a fee to cover the actual costs of accepting a retail motor fuel outlet into the program, including the cost of performing any required review, filing of necessary forms, and producing logo decals for public display. Additional charges may not be imposed for processing individual documents associated with the program. Funds collected shall be deposited into an appropriate county operating account.
The Legislature finds that there is a compelling need to better coordinate emergency response capabilities among local, state, federal, nongovernment, and private sector partners to provide the best and most effective post disaster services to the people of the State of Florida. In order to encourage the rapid recovery of economies in disaster affected areas, the Legislature finds that programs to restore normal commerce in communities should be a part of the State Comprehensive Emergency Management Plan.

In order to enhance the State Comprehensive Plan, the Division of Emergency Management is directed to conduct a feasibility study on incorporating into the state's emergency management plan, the logistical supply and distribution of essential commodities by nongovernment agencies and private entities.

As part of the study, the division shall create a set of operational standards that may be adopted by retail establishments to qualify for preemption from local government regulations in response to a disaster.
Generator Surveys

- **Project 1:**
  - Survey of all PORTABLE (trailer or skid mounted) generators 20 kW or greater owned by state or local agencies that are available for deployment under the SMAA.

- **Project 2:**
  - Counties are to identify all critical facilities that would require emergency power after an event, that do not already have a permanent emergency generator in place.

- **Agency Reports Due 14 December 2006 to FDEM**
2006-71, Laws of Florida (HB 7121)
Hurricane Preparedness Funding

Facilities

$52.8 Million to install gen-sets @ SpNS’s
- Emergency Power must ensure air-conditioning
- Projects must be complete by June 1, 2007

$15.0 Million for Enhancement or Retrofitting of Public Hurricane Shelters
- All projects global matched

$45.0 Million to Construct or Improve County EOCs
- $20M in GR Basic Construction; $25M in HMGP
Minimum Hurricane Safety Criteria for Existing Critical Facilities

Standards for Hurricane Evacuation Shelter Selection
Special Needs Shelter Emergency Power Supported HVAC Retrofit

- Dept. of Management Services managing ~45M of the local gen-set installations, $7M in direct to facility owner contracts
- Insufficient funds to complete all projects
  - Average Cost per Site @ $625K
  - Plus Extended Warrantees & PM Costs
- Priorities:
  - Multi-County Shelters
  - Coastal Counties
  - EHPA’s
  - Cost Effectiveness ($$ per Space)
Power Restoration:

Dennis-South, Dennis-Panhandle, Katrina, Rita, Wilma

Day 1 begins when the utility companies initiate restoration.

The PERCENT RESTORED column is based on customers that are capable of safely receiving power.
Current Situation

- SpNS Gen-set Install Candidate Sites have been selected and prioritized
  - List approved by DEM and DOH with EOG concurrence
  - Priority List is ABSOLUTELY inflexible at this time

- Current Estimate is that DMS will complete about 50 sites; about a dozen sites under direct to facility owner contracts

- Majority of counties will have sufficient capacity to meet basic objective; i.e., adequate SpNS capacity to meet demand
Current Situation

- DEM and DMS are currently in the process of purchasing gen-sets (range from 200 KW to 2.5MW; some sites multiple gen-sets)
- Subgrant Agreements have been mailed to selected facility owners w/cover letter signed by Gov. Bush
  - Letter states that at the end of 5-yrs that the school district and county must enter into an agreement to continue maintenance and service
Current Situation

- Architectural and Engineering Service on-going at the sites
- DMS is obtaining construction management services
- No construction work can begin at the sites until DEM/Facility Owner Agreements are signed
- Timeline for completion of installations is June 1, 2007!
- Primary DEM Point-of Contact: Bryant McKinnie @ (850) 413-0256
Hurricane Shelter Enhancement or Retrofit Grants

- Funds are HMGP, but non-federal share is global match
- Competitive Grant Process
  - NOFA #1: June 2 thru August 15
  - NOFA #2: September 20 thru October 25
- Copy of NOFA, Application and “toolkit” can be found at: http://floridadisaster.org/bpr/Response/engineers/index.htm
- Applications are not limited to those distributed on the Division’s “suggested” project lists
Current Situation

Applications from both NOFAs will be prioritized with funding recommendations

Priorities:
- Project’s ability to meet ARC 4496
- Regional and local needs
- Cost-effectiveness in terms of spaces gained
- Local Mitigation Strategy (LMS) ranking
Current Situation

- Funding recommendations will be forwarded to the Legislative Budget Commission (LBC) for approval on November 1
- Approved project list expected in December or early January, with contracting to follow
- HMGP application, benefit-cost analysis and eligibility must be completed to receive funds
- Projects must be complete by June 30, 2009
- Primary DEM Point-of-Contact: Dean Griffin @ (850) 413-9954
Emergency Operations Centers

- Competitive process for total of $45M
  - $20M in Basic Construction General Revenue funds
  - $25M in HMGP-eligible constructed code-plus wind and flood survivability improvements
- NOFA closed on August 15
  - $74M in GR funds requested
  - $24M in HMGP funds requested
Current Situation

Applications from NOFA will be prioritized with funding recommendations

Priorities:

- Structural survivability of the existing EOC; Project’s ability to meet ARC 4496
- Project’s ability to meet minimum FEMA work space criteria (CPG 1-20)
- County Population
- County hurricane evacuation clearance time
### FEMA CPG
#### 1-20 EOC Staff Size Estimate/Community Size

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<th>Community Population Size</th>
<th>EOC Staff Size Low</th>
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<th>EOC Staff Size High</th>
<th>Current EOC Staffing Size</th>
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FEMA CPG 1-20 EOC Staff Size Estimate/Community Size

![Graph showing EOC Staff Size Estimate for different population sizes. The graph compares Minimum Staff Size, Median Staff Size, Preferred Staff Size, and Current Staff Size Trend, demonstrating how staff size varies with population growth.]
Current Situation

- Funding recommendations can not include land acquisition; purchase of equipment, furnishings, communications or operational systems; or recurring costs.
- Other unexpended state funds already provided for the project must be considered, and funding recommendations decreased accordingly.
Current Situation

- Funding recommendations will be forwarded to the Legislative Budget Commission (LBC) for approval on November 1.
- Approved project list expected in December or early January, with contracting to follow.
- HMGP application, benefit-cost analysis and eligibility must be completed to receive funds.
- Projects must be complete by June 30, 2009.
- Primary DEM Point-of-Contact: Danny Kilcollins @ (850) 413-9859.
## Summary of Wind Storm Design Criteria

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<tr>
<th>Performance Category</th>
<th>Wind Hazard Return Period, yrs</th>
<th>Wind Design Criteria</th>
<th>Design Wind Speed Range, mph</th>
<th>Importance Factor, I</th>
<th>Exposure Category</th>
<th>Directionality Factor, Kd</th>
<th>Internal Pressure Coefficient, GCpi</th>
<th>Load Combinations</th>
<th>Hurricane Windborne Debris Impact Criteria</th>
<th>Tornado Windborne Debris Impact Criteria</th>
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<td>g.e. 100</td>
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<td>100 - 150 (Torn. @ 150)</td>
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<td>9 lb 2x4 @ 50 mph; Max. Hgt. @ 60 ft.</td>
<td>9 lb 2x4 @ 75 mph; Max. Hgt. @ 60 ft.</td>
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Comparison of Hurricane Wind Codes & Standards

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<td>IBC and FBC Model Codes</td>
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<td>FEMA 361 &quot;near absolute protection&quot;</td>
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## Return Period Years

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<th>50</th>
<th>40</th>
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<td>ANY 1 YEAR</td>
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<td>40</td>
<td>18</td>
<td>9.5</td>
<td>5</td>
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<td>TEN YEARS</td>
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</tbody>
</table>
Fla. PC 3 Wind Design Criteria
Fla. PC 4 Wind Design Criteria
## Basic Wind Speed Conversions

<table>
<thead>
<tr>
<th>Wind Measurement Scale</th>
<th>Hurricane Category 1</th>
<th>Hurricane Category 2</th>
<th>Hurricane Category 3</th>
<th>Hurricane Category 4</th>
<th>Hurricane Category 5</th>
<th>Extreme Hurricane Category 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3-second Gust</strong></td>
<td>90</td>
<td>118</td>
<td>135</td>
<td>160</td>
<td>190</td>
<td>234</td>
</tr>
<tr>
<td>(ASCE 7 and 2004 Florida Building Code)</td>
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<tr>
<td><strong>Fastest Mile</strong></td>
<td>75</td>
<td>100</td>
<td>117</td>
<td>140</td>
<td>168</td>
<td>213</td>
</tr>
<tr>
<td>(Standard Building Code)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>1-minute Sustained</strong></td>
<td>74</td>
<td>96</td>
<td>111</td>
<td>131</td>
<td>156</td>
<td>192</td>
</tr>
<tr>
<td>(National Hurricane Center)</td>
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</tbody>
</table>
Probable Minimum Central Pressure Limit Estimate for Hurricanes
QUESTIONS???
Regional Evacuation Study – 2006/2007

Purpose:
• Update/enhance all 11 Regional Evacuation Studies.
• Provide consistency and ensure references & links to other critical plans or studies
• Include spatially enabled & GIS data that can be analyzed against a number of hazards (real-time)
• Clearly define methodologies/approaches to development of the study (metadata)
• Provide tools for self-updating based on changing parameters such as population, growth, etc
• Incorporate an all hazards approach flexible enough to account for regional or local hazards, to include both notice and short notice evacuations
Regional Evacuation Study – 2006/2007

Timeline:

• Preplanning Contract – (In Progress)
  – Finalize Statewide Specifications (Complete)
  – Inventory/Catalog existing LiDAR data (Complete)
  – Develop compatibility matrix (Complete)
  – Determine compatibility of existing data (In Progress)
  – Identify existing projects already funded (In Progress)

• Competitively bid an RSFOQ for project management & data acquisition
  – Model updates including SLOSH
  – Map Modernization

• Develop Statement of Work for Regional Evacuation Studies
  – Demographic and Land Use Analysis
  – Behavioral Analysis
  – Hazards Analysis
  – Shelter Analysis
Regional Evacuation Study – 2006/2007

Timeline:

• Incorporate high resolution elevation data & coastal flooding/surge model information into RES and finalize
• All previous analyses completed
• Evacuation zones re-evaluated
• Vulnerability Analysis initiated
• Transportation Analysis initiated
  - New clearance time developed
• Study finalized and presented.
What’s New?

• All Hazards
• Emergency Managers Tool Kit
• More comprehensive demographic info
• LIDAR based SLOSH Models
Regional Evacuation Study – 2006/2007
Previous SLOSH Model – 15,000 grid cells
Regional Evacuation Study – 2006/2007
2006 Update – 65,000 grid cells,
14,800 hypothetical storms, 2 storm radii, 2 tide levels
Panel Discussion: House Bill 7121

Eve Rainey, Moderator - FDEM
Carla Boyce, Preparedness Section Administrator - FDEM
Chuck Hagan, Unified Logistics Chief - FDEM
Danny Kilcollins, Facilities Unit Manager - FDEM
Patrick Odom, Hurricane Program Manager - FDEM