Debris Management Overview
Tropical Storm Irene
August 28-31, 2011

Solid Waste Advisory Committee Meeting
Waste Engineering & Enforcement Division
September 27, 2011
Irene Impacts

- Significant resulting tree damage; structural damage along coast and inland along rivers and streams
  - Landfall at highest tide of month
  - Soils already saturated from above normal August rainfall
  - Very dense tree cover next to power lines
  - No major state-wide wind events since Hurricane Gloria in ’85
  - Large physical size of storm contributing to both coastal and inland flooding of rivers and streams affecting structural elements at these locations
Organizational Structure to Conduct Debris Management

• Natural Disaster Plan (DEMHS)
• Disaster Debris Management Plan (DEEP)
• State Contracts for debris removal and monitoring of debris removal operations
State Implementation Process

• Provided by the **Concept of Operations Plan (ConOps)**
  – Guidance for the State, its contractors, and other parties to facilitate the removal, management, collection and disposal of debris.
  – Provides a pre/post event timeline and related activity and/or plan execution action items.

• Executed by the **Interagency Debris Management Task Force (IDMTF)**
Pre-Landfall Phase – Preparation

- Two days out:
  - Monitoring storm event
  - Governor activates partial operation of Emergency Operation Center (EOC)
  - Implementation of the Natural Disaster Plan and Disaster Debris Management Plan
  - Begin communications with other state agencies participating in IDMTF and contractors AshBritt, SAIC /Beck Disaster Recovery
  - Review Temporary Debris Storage & Reduction Site (TDSRS) file; DEEP conducts field visits to several sites to assess suitability
  - Emphasize to towns – No TDSRS on state lands
  - Coordinate with utilities on location of utility staging to avoid conflicts on state properties.
  - Review Emergency Authorization templates
Dear Secretary Merrill:

Pursuant to Connecticut General Statutes, Section 28-9, I have declared that a state of Civil Preparedness exists as a result of a severe weather condition predicted to affect the State, specifically Hurricane Irene.

As such, I hereby authorize the activation of the State’s Disaster Debris Management Contracts.

With this authorization, I am directing the following agencies to fulfill their duties under these contracts:

- Department of Emergency Services and Public Protection
- Department of Energy and Environmental Protection
- Department of Transportation
- Department of Administrative Services
- Office of Emergency Management and Homeland Security
- Office of the State Fire Marshal

I am signing this notification with your seal and hand on this 26th day of August, 2011.

Dannel P. Malloy
Governor

TIME: 3:45 PM

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Denise Merrill
State Capitol Administrator
Pre-Landfall Phase - Preparation

• One day out
  – Pre-landfall Emergency Declaration, 9/27
  – IDMTF assembles at the EOC
    • Begin monitoring EOC debris email account
    • Begin submitting debris status for Situational Reports and Governor briefing meetings
    • Draft purchase orders and task orders
    • Contractors provide planning and prepare to mobilize.
    • Contractors estimate dollar value for debris removal based on county based debris volume estimates
    • DOT assists with mapping to be used for sectoring and prioritizing debris removal
    • Planning for assurances that utility staging sites don’t overlap with potential debris staging sites
Phase 1: Push & Shove

- First 70 hours – state pays for any municipal assistance to clear roads by AshBritt for this storm.
- DOT handles clearing on state roads; towns handle their own roads.
- Debris Team logs in requests from municipalities for additional assistance in clearing downed trees
  - Requests for both National Guard assistance and AshBritt assistance for towns with significant number of trees down with wires.
  - Requests coming in from town EMDs via DEMHS Regional Coordinators
Phase 2: Debris Removal and Recovery

Post 70 hour period

– State no longer pays

– Towns must contract directly with state’s contractor, or select contractor of their choice

– Contracts have to be competitively bid for reimbursement consideration
Eligibility Requirements for Reimbursements

• FEMA requires:
  – County-wide disaster declaration for a town to be reimbursed
  – Towns must carefully document and monitor all activities related to debris removal and management for final recycling or disposal
1. IDMTF Deploys Contractor
2. Contractor Submit’s Service Request
3. IDMTF Authorizes Request
## LOG-IN OF MUNICIPAL REQUESTS

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Municipality/Site</th>
<th>Region</th>
<th>Electric Service</th>
<th>Scope of Work (e.g., debris removal)</th>
<th>Current Scope Status</th>
<th>Task Order</th>
<th>National Guard</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/23/11</td>
<td>Bridgeport</td>
<td>Fairfield</td>
<td>Region 1</td>
<td>UI</td>
<td>Basket truck to remove hazardous trees and limbs</td>
<td>08/23/11, equipment deployed</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>Columbus</td>
<td>Tolland</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>Line work is needed (CL&amp;P)</td>
<td>6</td>
</tr>
<tr>
<td>08/23/11</td>
<td>East Haddam</td>
<td>Middlesex</td>
<td>Region 3</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>Line work is needed (CL&amp;P)</td>
<td></td>
</tr>
<tr>
<td>08/23/11</td>
<td>East Hampton</td>
<td>Middlesex</td>
<td>Region 3</td>
<td>CL&amp;P</td>
<td>Debris removal with CL&amp;P</td>
<td>National Guard to perform debris cleaning.</td>
<td>184 Elm Street x Sidney Street. Large tree approximately sixty feet long, forty feet across (limbs) with a 4.5 foot diameter trunk. Majority of the wood was taken by local residents to only one T CU Yard dump was filled in this mission.</td>
</tr>
<tr>
<td>08/23/11</td>
<td>East Haven</td>
<td>New Haven</td>
<td>Region 2</td>
<td>UI</td>
<td>Requests Debris Removal Assistance for shoreline area of East Haven. The location is Coast Beach Ave. NOTE: Collapsed houses involved.</td>
<td>08/23/11, request take over town DPW work on debris cleaning; ton to forward list of roads to facilitate review of that request</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>East Lyme</td>
<td>New London</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Need help w/d debris fields.</td>
<td>09/08/11, additional self loaders added</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>Groton Town</td>
<td>New London</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>09/08/11, additional self loaders added</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>Lebanon</td>
<td>New London</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Downed Tree w/lines</td>
<td>09/08/11, 1 bucket truck and 1 self-loader Knockout Loader Truck deployed</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>Lisbon</td>
<td>New London</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>09/08/11, 10:30 HRS, No need for assistance for debris removal. Still need CL&amp;P</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>New Canaan</td>
<td>Fairfield</td>
<td>Region 1</td>
<td>CL&amp;P</td>
<td>Downed Trees w/lines</td>
<td>09/10/11, @ 10:30 HRS, No need for assistance for debris removal. Still need CL&amp;P</td>
<td></td>
</tr>
<tr>
<td>08/23/11</td>
<td>New Haven</td>
<td>New Haven</td>
<td>Region 2</td>
<td>UI</td>
<td>Debris Removal for building damages along shore line and road clearance. Location: Morris Cove and Annex – 450 Lighthouse Road. Removal of downed trees-whines</td>
<td>Line work is needed (UI)</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>North Stonington</td>
<td>New London</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>09/08/11, 1 bucket truck and 1 self-loader Knockout Loader Truck deployed</td>
<td>4</td>
</tr>
<tr>
<td>08/23/11</td>
<td>Lyme</td>
<td>New London</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>AshBilt conducted debris assessment. Municipality informed AshBilt that they would be putting this out for competitive bid</td>
<td></td>
</tr>
<tr>
<td>08/23/11</td>
<td>Plainfield</td>
<td>Windham</td>
<td>Region 4</td>
<td>CL&amp;P</td>
<td>Removal of downed trees-whines</td>
<td>Line work is needed (CL&amp;P)</td>
<td>4</td>
</tr>
</tbody>
</table>
DEEP Web Site Information

• Information for Municipalities:
  • Site Selection Guide for Temporary Debris Storage and Reduction Sites (TDSRS)
  • Emergency Authorization Fact Sheet for Managing Storm Generated Debris
  • Downed Trees
  • Municipal Emergency Authorization - Hurricane Irene
  • Municipal Guidance on Use of State Disaster Debris Removal and Monitoring Contracts
  • Fact Sheet - Appointment of Local Open Burning Official and Guidance on Brush Management Options
DEEP Web Site Information

• Information for Municipalities and Residents:
  – **Solid Waste Management - Household Garbage; Storm Debris**
  – **Picking up the Pieces - Putting Your Debris at the Curb for Pickup**
  – **Important Health Information - Hurricane Irene (CT DPH)**
  – **Public Information Concerning Disaster Debris Pickup**