Emergency Response/Debris Management

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Homeland Security Planner
Transportation Management Center (TMC)

• 24/7 Statewide Operation

• Coordinates and Manages DelDOT’s response to any incident or event that impacts Delaware’s transportation system

• Monitors and Controls all ITMS intelligent transportation systems (Traffic Signals, Variable Message Signs, Traffic Cameras, Vehicle Counting Devices, Weather Stations, etc)

• Incident and Emergency Management Planning and Operations

• Homeland Security Planning and Operations
Transportation Management Center
The State EOC includes:

- Delaware Emergency Management Agency (DEMA)
- Delaware State Police
- DelDOT’s Transportation Management Center (TMC)
Scenario – Category 3 Hurricane – Pre Landfall

- Activate the Rehoboth Room - TMC Management Staff go into 24-hour shifts
- Monitor the Weather
- Bridge Calls
  - DelDOT Internal Bridge Calls
  - DEMA Bridge Calls
  - Delmarva Emergency Task Force (DETF) Bridge Calls
- Schedule Emergency Response Units (ERU)
- Emergency Support Coordinators (ESC) activated with DEMA
- Debris Management Team Coordinates (DelDOT, DEMA, DNREC)
Rehoboth Room inside the TMC

Where centralized monitoring, control and command of a situation is performed.

The TMC coordinates DelDOT’s response to events such as hurricanes, floods, and snowstorms.
Hurricane Landfall

- ERU and Yard trucks providing live feeds into the TMC
- ESC’s are monitoring WebEOC for tasking from DEMA for support
- Weather is continuously monitor from multiple sources.
  - Hydrology stations are monitored for back bay flooding
  - High tide cycles…especially over 3 high tides
  - Wind direction, along with sustained speed and gusts
  - Ocean surge and beach erosion
- 4-hour reports on the status of the transportation system
- Incident Management reports for major accidents/incidents
- Evacuation requests….usually happens in the middle of the night
- Public Messaging – WTMC 1380, Twitter, Facebook, AM/FM Radio, Community Relations press releases.
New Truck Camera and MARWIS Unit
Post Landfall

ESC’s still monitor the WebEOC for taskings from DEMA
Damage reports come in to the TMC
Damage Assessment Teams (DATs) are sent out to gather pictures and videos….this is primarily done with the drone teams.
Districts start clearing their primary roads
TMC starts to get request for Debris clean-up from DEMA and the County Emergency Managers
If the Debris clean-up exceeds the capabilities of the County and DelDOT then the Debris Management Plan will be activated….by DelDOT
Look at the blue tarps on the roofs...the path of the tornado.
The Debris Management Plan will be activated….by DelDOT?

Is that correct…why DelDOT

Here is why?
The Delaware Emergency Management Agency (DEMA) is the lead state agency for coordination of comprehensive emergency preparedness, training, response, recovery and mitigation services in order to save lives, protect Delaware's economic base and reduce the impact of emergencies.
All State agencies are required to provide DEMA with any and all personnel, equipment, facilities, materials, or other assets during any period of disaster, emergency, or threat to include the period of recovery.

Title 20—Governor may delegate authority to Secretary of Public Safety, Director of DEMA, or such other person.
DEMA has developed the Delaware Emergency Operations Plan (DEOP) establishes the framework through which the State of Delaware prepares for, responds to, and recovers from the impacts of a wide variety of disasters and emergencies that could adversely affect the state or its citizens.

This is a **strategic** plan in that it provides a broad context for the delivery of emergency response and recovery services within Delaware.

**Operational** and **tactical** guidance may be found in a variety of other plans and documents developed by the Delaware Emergency Management Agency (DEMA) and other state agencies.
DelDOTs Emergency Operations Plans

- Salem and Hope Creek Nuclear Generating Stations Traffic Operations Plan
- All Hazards Evacuation Plans
- All Hazards Evacuation Plan for Individuals Requiring Special Transportation Assistance
- Christiana Mall Emergency Transportation Management Plan
- Delaware Transit Corporation Plan
- Snow Emergency Plan
- Snow Emergency Operations Manuals (M&O Districts)
- Bridge Closure Plan
- Toll Plaza Modified Operations Plan
- Dover Air Force Base Incident Plan
- Dover International Speedway Evacuation Plan
- Firefly Event Plan
- Continuity of Operations Plan (COOP)
- Fuel Locations Map
- Debris Management Plan
## Delaware Emergency Operations Plan (DEOP)

### Delaware Emergency Operations Plan

#### Operations Section

#### Responsibilities Matrix

| ALL STATE AGENCIES | Dept of Nat Resources & Envtl Control | Boiler Safety Office | Division of Air & Waste Management | Division of Fish and Wildlife | Division of Parks & Recreation | Division of Soil & Water Conservation | Division of Water Resources | State Energy Office | Dept of Safety & Homeland Security | Capitol Police | Delaware State Police | Developmental Disabilities Council | Div of Alcohol & Tobacco Enforcement | Dept of Svcs for Children, Youth & Families | Department of State | Banking Commissioner’s Office | Office of Historical & Cultural Affairs | Department of Technology & Information | Department of Transportation | Office of Management & Budget | Budget Development Office | Division of Facilities Management | Division of Government Support Services | Food Distribution Section |
|---------------------|-------------------------------------|----------------------|-----------------------------------|--------------------------------|-------------------------------|--------------------------------------|------------------------------|-------------------|-----------------------------------|----------------|------------------------|-------------------------------|--------------------------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|--------------------------------|-----------------------------|
| OPERATIONS SECTION  | Emergency Services Branch           | Law Enforcement Group | Fire & Rescue Group               | Homeland Group                 | Infrastructure Branch         | Public Works Group                | Public Buildings Group          | Transportation Group        | Emergency Services Branch           | S               | L                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Collapse & Debris Operations Group |                     |                                   |                                |                               |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Emergency Operations Group         | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Hazardous Materials Management     | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Incident Management Group          | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Mass Casualty Management Group     | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Medical Operations Group           | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Resource Management Group          | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Support Services Group             | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Technical Support Group            | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Overall Operations Group           | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
|                     | Operations Group                   | S                    | S                                 | S                               | S                             |                                      |                              |                                 |                                |                               | S               | S                      | S                            | S                        | S                               | S                           | L                           | S                          | S                       | S                          | S                       | S                           | S                          |
Transportation Group:

The mission of the Transportation Group is to ensure the integrity of the state’s transportation infrastructure. This includes roadways, railways, airports, marine ports and their related components.

Debris Management Group:

The mission of the Debris Management Group is to facilitate and coordinate the removal, collection, and disposal of disaster-related debris following an incident.
Debris Management Plan

- Plan consists of three parts
  - Base Plan (first 62 pages)
  - Appendices (next 138 pages)
  - Delaware Marine Debris Emergency Response Guide (52 pages)
Debris Management Primary Agencies

- Office of the Governor
- Delaware Emergency Management Agency (DEMA)
- Delaware Department of Transportation (DelDOT)
- Department of Natural Resources and Environmental Control (DNREC)
- Delaware State Fire School
- Delaware National Guard (DNG)
- County Government (County EMAs)
- Local Government
- State Historic Preservation Office (SHPO)
- Public Utilities
- Department of Agriculture
DelDOT DEBRIS MANAGER

- DelDOT will appoint a Debris Manager to oversee, monitor, and report on debris activities. The Debris Manager will:
  - Be responsible for the full implementation of this plan, and for the daily operation and control of the debris cleanup, debris management sites, and all debris staff.
  - Work with the Transportation Management Center (TMC) to facilitate the removal, collection, and disposal of debris.
  - Coordinate with other state and local agencies to facilitate the collection, sorting, removal, and final disposition of debris during a disaster.
Debris Management Plan

The intent of the Debris Management Plan is to:

- Facilitate and coordinate the removal, collection, and disposal of debris following a disaster
- Expedite recovery efforts in the impacted area, and
- Meet the requirements for federal reimbursement.
• DelDOT will clear Primary, Secondary and Tertiary state-maintained roads as soon as practical.

• The State resources will support local authorities when their resources are overwhelmed or anticipated to be overwhelmed. County Emergency Managers should work with DEMA if they need state resources to clean up storm related debris on county or state-owned property.

• The state will avoid if possible, cleaning up any debris on privately owned property that is not in the public interest to eliminate immediate threats to life, public health, or safety.

• County Emergency Managers should discourage homeowners from putting storm debris at the curb with the intent that the state resources will be used to remove it.

• It is the homeowner’s financial responsibility to have any storm debris removed off their property by themselves or a private contractor.
Clearing Priorities

- DelDOT will identify the clearance priorities in order to efficiently clear debris from at least one lane on all evacuation routes and identified primary and secondary roads to expedite the movement of emergency service vehicles such as fire, police, and medical responders.

- Interstate, controlled access roadways, and divided highways will be the next priority with a minimum of one lane cleared in each direction. This includes I-95, I-295, I-495, US 13, US 40, US 113, US 202, US 301, and DE 1. Any remaining Primary Arterials will also be cleared.
During most events existing landfills can be used to process the debris… as these locations maintain the appropriate environmental and regulatory permits and approvals.

However, major disasters, such as Category 3 hurricanes, can result in millions of cubic yards of debris, which has the potential to overwhelm local and regional landfills.

To dispose of the material safely and efficiently, temporary Debris Management Sites (DMS) may be required to process the volume of debris. The purpose of the DMS will be to sort, reduce, recycle, and process the debris prior to its ultimate disposal.
County Based Potential DMS Location Maps
Activating a DMS Flow Chart
Developed by the National Oceanic and Atmospheric Administration - June 2020.

Response and recovery operations following a debris incident—either natural or man-made—that results in the release of large amounts of waterway debris.

The document outlines existing response structures at the local, state, and federal levels to facilitate a coordinated, well-managed, and immediate response to waterway debris incidents impacting the state of Delaware.
Thank You!!

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