



MINUTES OF MEETING
New Castle County TMT Meeting
July 13, 2006



James Gilliam Building, New Castle, Delaware

Meeting Date: May 3, 2006
Location: James Gilliam Building, New Castle, Delaware
Purpose: New Castle County Transportation Management Team (TMT) Evacuation Meeting

List of Committee Members and Meeting Attendees:

First Name	Last Name	Agency	Email
Alice	Bailey	DSP Troop 9	Alice.j.bailey@state.de.us
Dave	Carpenter	NCC Office of Emergency Management	dcarpenter@co.new-castle.de.us
Glenn	Gillespie	DEMA	glenn.gillespie@state.de.us
John	Goodier	Civil Air Patrol	jmgoodier@aol.com
Jim	Grimes	UDPD	jgrimes@udel.edu
Brian	Humphry	Christiana Care	bhumphry@christianacare.org
Tanya	King	Daniel Consultants, Inc.	tking@danielconsultants.com
Vince	Kowal	NCC Land Use	vkowal@co.new-castle.de.us
Mamie	Lynch	EK	mglynch@ekmail.com
Alvin	Marquess	MDSHA	AMarquess@sha.state.md.us
Kevin	McDerby	New Castle PD	Kevin.mcderby@cj.state.de.us
Bernie	Nutter	DRBA	Bernie.nutter@drba.net
John	Potts	Newark PD	john.potts@cj.state.de.us
Burt	Samuelson	WILMAPCO	bsamuelson@wilmapco.org
Michael	Shaw	DRBA New Castle Airport	Mike.shaw@drba.net
William	Simpson	Good Will Fire Co.	billsimpson@erols.com
Kurt	Reuther	DNREC	rreed@selbyvillepd.state.de.us
Paul	Taylor	DSP Troop 2	Paul.taylor@state.de.us
Tom	Tran	Imtran	tom.tran@imtran-engineering.com
Daniel	Valle	American Red Cross	dvalle@redcrossdelmarva.org
Harry	Van Den Heuvel	Civil Air Patrol	harryqb@comcast.net
Regis	Wagner	EK	rwagner@ekmail.com
James	Watson	Fire Chiefs Association	kingshimr@aol.com
Margie	Williams	Wilmington OEM	
Robert	Williams	Wilmington PD	Robert.Williams@cj.state.de.us
Julia	Willmott	NCC Intern OEM	
Denise	Wise	DRBA Police	

Handouts provided during the meeting:

1. May 3 Meeting Minutes
2. Statewide Action Items
3. Data Subcommittee Meeting Minutes
4. Evacuation Route List



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I. Opening Remarks

Regis Wagner (EK) opened the meeting with introductions from the attendees. Regis reviewed the Statewide Action Item list and asked for comments. There were no comments on the Action Item list.

II. Review of Data and Jurisdictional Subcommittee Meetings

Mamie Lynch (EK) updated the group on the progress made since the May meeting. She summarized the findings of the Data Subcommittee and referenced the associated meeting minutes which were provided as handouts. She explained that DelDOT, WILMAPCO, NCC, and the Army Corps of Engineers were represented at the subcommittee meeting, and the group determined that one dataset is being used by DelDOT, WILMAPCO, and NCC, while a separate dataset is being used by the Army Corps. However, in comparing the two sets of volume and population data, it was determined that all involved parties are using comparable data.

Mamie went on to explain the progress made at the Jurisdictional Subcommittee meeting. At this meeting, jurisdictional information was determined for various key locations throughout the county. If further information is needed, EK will contact Joe Mulford and/or Dennis Quinn to obtain the information quickly.

III. Review of Hurricane Evacuation Route Maps

Mamie explained that hurricane evacuation routes were developed for two different scenarios:

- 1) A northwestern evacuation for a hurricane coming from the east
- 2) A northeastern evacuation for a hurricane coming from the south

She directed everyone to follow along during the discussion on their Evacuation Route List handouts, and went through each evacuation route for both hurricane scenarios, requesting comments and discussions. The following comments were received:

- Del 299 from US 301 to US 13 should not be used as an evacuation route because it travels through Middletown.
- Del 896 from Del 273 to the DE/MD State Line may not have sufficient capacity to carry evacuating traffic (*Note: The AADT on Del 896 is 9,760 at the DE/MD State Line.*)
- Del 9 from the County Line to Del 299 is flood prone.
- US 40 is flood prone at the US 13 / US 40 split and at the railroad tracks.
- US 40 cannot be used as an evacuation route entering MD because MD's evacuation plan has traffic entering DE on US 40.
- Shellpot Creek is prone to flooding at the Del 3 (Marsh Road) exit to I-95.
- US 13BR is flood prone at Shellpot Creek. However, other than this one location, US 13BR is a better alternative than US 13.
- 12th Street is prone to flooding from the Brandywine River.
- US 13 is flood prone at Lea Boulevard.
- Maryland Avenue is flood prone near Canby Park.



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- Del 261 becomes a two lane roadway when it enters PA, so it will create a bottleneck during an evacuation. Instead of channeling traffic into PA on Del 261, traffic should be diverted from Del 261 onto Del 92.
- The intersection of Del 273 and US 13 is very congested on Friday nights so it could become a bottleneck during an evacuation.
- Del 3 is a two lane road and may not be able to handle evacuation traffic. Gene Donaldson (DelDOT TMC) commented that roads such as Del 3 need to be used to bring local residents to the larger roadways. He also added that in Sussex County, most of the evacuation routes are only two lanes.
- Del 7 in Stanton is flood prone.
- The Red Clay Creek often floods.

Dave Carpenter (NCC Office of Emergency Management) explained that the evacuation routes must be chosen despite flooding possibilities in order to be prepared with a baseline evacuation plan. During an evacuation, judgment calls will need to be made regarding which routes can be used. Mamie agreed with Dave's assessment and suggested that the flood prone areas be identified in the plan or on the map so emergency preparedness personnel will be aware of the possible problems associated with using these routes. She also added that the evacuation will need to occur before the rain bands of the hurricane hit. Once heavy rains begin, emergency personnel and equipment will be removed from the roadways and travel will not be safe. Thus, when the evacuation is occurring, flooding should not be a serious problem.

The group continued to discuss other issues involved with the evacuation routes. The evacuation timeframe, particularly when the Kent and Sussex County traffic would reach New Castle County was questioned. Dan Valle (American Red Cross) suggested that a pre-existing agreement discussing when to evacuate would be helpful in managing this timeframe. Everyone agreed that an early evacuation will be necessary to evacuate everyone successfully. Also, if traffic will be entering NCC from Kent and Sussex, NCC should be evacuated first.

Alvin Marquess (MDSHA) gave an update on Maryland's evacuation planning. He explained that Dr. Chang of the University of Maryland is almost finished his traffic model. The model should be complete by the end of the month, and it will incorporate parts of Delaware. It should prove to be a very useful tool because it will provide real time detection at 32 sites. It can be used as a tool to develop plans and to manage everyday traffic conditions. Alvin also suggested that Delaware and Maryland discuss how to sign the evacuation routes if the Bay Bridge closes. Mamie suggested setting up a smaller meeting with Alvin and Gene to discuss this signage.

IV. Review Hazardous Landmark Map

Mamie reviewed the Hazardous Landmark Map, explaining the locations of the various nuclear and chemical facilities which could affect NCC. She explained that DEMA currently has a plan for an emergency requiring a 10-mile evacuation radius around the Salem-Hope Creek plant. Kent County decided to reference this plan in their All-Hazards Evacuation Plan. Kent County also decided not to address the 50-mile evacuation radius because an event creating such a large scale hazardous area would provide residents a good deal of time to evacuate without causing serious traffic concerns.



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Mamie asked for comments from the NCC TMT, particularly from DEMA, and Glen Gillespie (DEMA) requested that this conversation be put off for another day. He offered to bring his radiological and chemical specialists to the next meeting in order to discuss this issue in more depth.

V. Discuss Shelters

The group briefly discussed the issue of shelters. Dan said that the shelters should not be listed or shown on a map because different shelters will be used based on the circumstances of the emergency. A statement should be included in the All Hazards Evacuation Plan that the American Red Cross will work in cooperation with emergency management personnel to manage shelters.

VI. Action Items

- EK will set up a meeting with Gene and Alvin to discuss Bay Bridge signing.
- EK will update the Hurricane Evacuation Route maps based on the meeting comments. The maps will be e-mailed to the group for a one week comment period. After one week, all comments will be incorporated and the route maps will become final, allowing the group to move forward with the development of the remainder of the plan.
- EK will schedule the next NCC TMT meeting.
- Glen Gillespie will discuss the radiological and chemical emergency plans with DEMA and will bring the appropriate people to discuss this issue at the next TMT meeting.

VII. Next Meeting

EK will schedule the next meeting for approximately one month from July 13, 2006 and will send an e-mail announcement with the meeting time and location.

Any questions or concerns can be directed to Gene at gene.donaldson@state.de.us or (302) 659-2404. Additionally, Edwards and Kelcey is providing consulting support and helping assist DeIDOT in coordinating the efforts. Regis Wagner can be reached at rwagner@ekmail.com / (610) 701-7000.