



U. S. Coast Guard Incident Management and Response Plan Development



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US Coast Guard**

Overall Classification: **UNCLASSIFIED**



Outline



- USCG Overview
- USCG PATFORSWA Overview
- Exercise EAGLE RESOLVE
- National Response Framework and National Incident Management System (NRF/NIMS)
- Response Plan Development (Case Study)



11 Statutory Missions of the U.S. Coast Guard



- Port & Waterway Security
- Drug Interdiction
- Aids to Navigation
- Search & Rescue
- Living Marine Resources
- Marine Safety
- Defense Readiness
- Migrant Interdiction
- Marine Environmental Protection
- Ice Operations
- Law Enforcement



Average Day in the U.S. Coast Guard



- Conducts 48 search and rescue cases, saves 9 lives;
- Assists 73 people in distress;
- Saves over \$132,000 in property;
- Seizes 297 pounds of marijuana and 549 pounds of cocaine worth \$8.2 million;
- Services 134 buoys and fixed aids to navigation;
- Interdicts 6 illegal migrants;
- Conducts 24 security boardings in and around U.S. ports;
- Escorts 5 high-capacity passenger vessels;
- Conducts 54 waterborne patrols of critical maritime infrastructure;
- Investigates 24 pollution incidents;
- Inspects 127 vessels, containers and marine facilities;
- Issues 173 credentials to merchant mariners;
- Facilitates movement of \$8.7 billion worth of goods and commodities through the Nations marine transportation system.



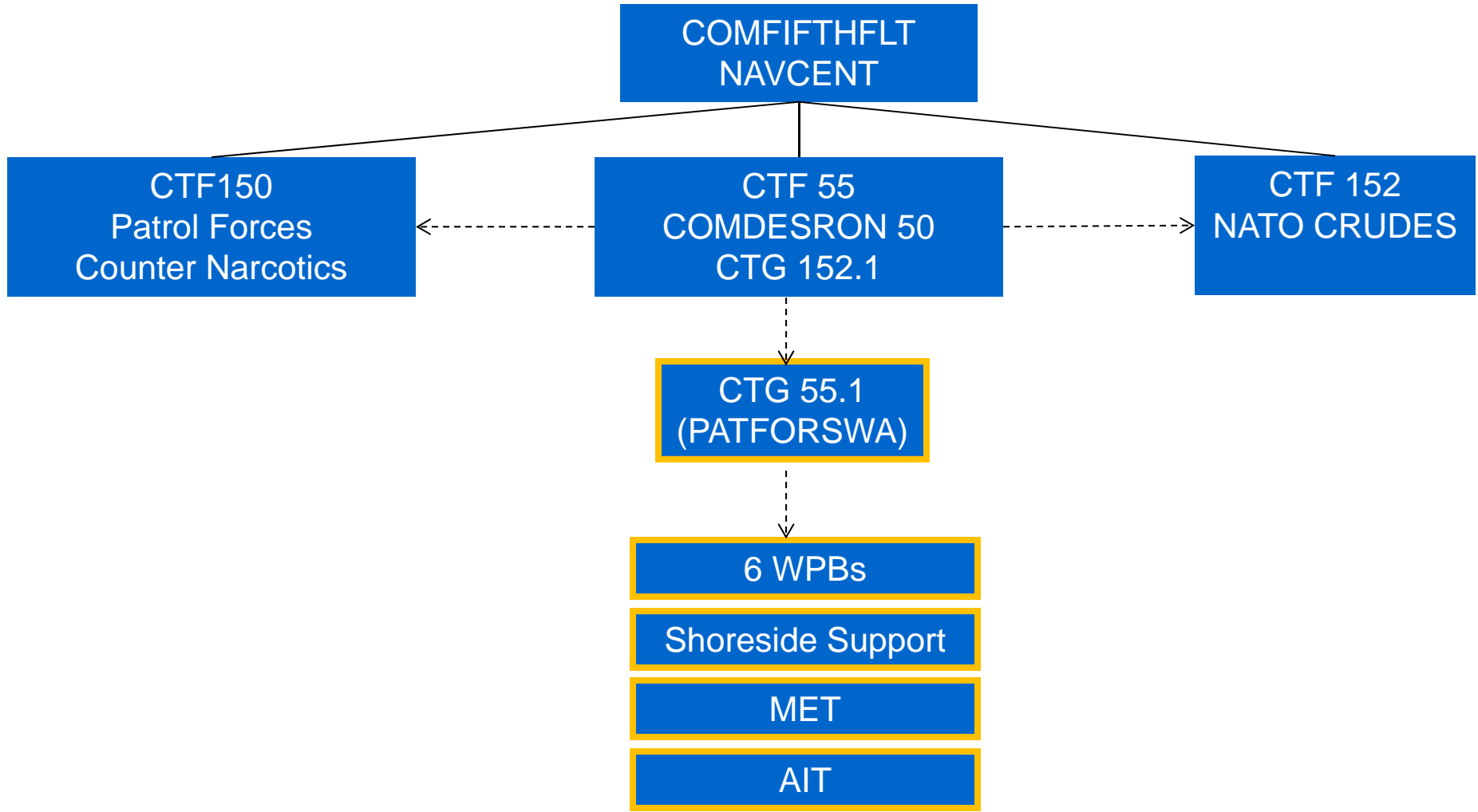
USCG PATFORSWA Mission



To train, organize, equip, support and deploy mission-ready Coast Guard Forces in support of CENTCOM, NAVCENT, and national security objectives.



PATFORSWA Command Relationships





PATFORSWA History



- WPBs deployed in 2003 in support of Operation Iraqi Freedom
- Original Mission: Maritime Infrastructure Protection for Iraqi Oil Platforms (OPLAT)
- PATFORSWA became a permanent unit in April 2006
- Switched to Operations Inherent Resolve & Enduring Freedom



Maritime Engagement Team (MET)



Missions:

- **PATFORSWA WPB Training**
 - Visit, Board, Search, and Seizure (VBSS)
 - Maritime Law Enforcement
 - Water Survival
 - Tactical Egress
- **Theater Security Cooperation**
 - Fully tailored and exportable VBSS professional exchanges with regional maritime partners
 - Five and 10-day engagements
 - NAVCENT Exercises
- **Support DoD and Coalition Partners**
 - USN, USMC and Combined Maritime Forces (CMF)



- **Participated in 11 Exercises and 62 VBSS/Small Boat engagements with GCC partners**



Maritime Exercises in the GCC with USCG Participation



- International Maritime Exercise (IMX) – GCC+
- Exercise EAGLE RESOLVE – GCC+
- Exercise NAUTICAL UNION, EAGLE SALUTE – Kingdom of Saudi Arabia
- Exercise RESOLUTE RESPONSE – Kingdom of Bahrain
- Exercise IRON SIREN – United Arab Emirates
- Exercise KHUNJAR HADD – Sultanate of Oman
- Exercise EASTERN SAILOR – State of Qatar

USCG exercise focus: Visit, Board, Search and Seizure (VBSS), Shipboard and Small Boat Ops





Exercise EAGLE RESOLVE



- Premiere multilateral exercise in Kuwait: Mar. 19– Apr 19, 2017
- Over 4,000 GCC and U.S. participants
- 1 Week Command Post Training
- 1 Week CPX: simulated “injects” to exercise participants' ability to respond as a multinational headquarters staff
- 1 Week FTX: tactical demonstrations of land, maritime, and air forces





Exercise EAGLE RESOLVE



CPX Exercise Storylines (Level 1 Chart)

Themes	Day 1	Day 2	Day 3	Day 4	Day 5
MARITIME SECURITY OPERATIONS (MSO)	SUSPECT DHOWS PLACING MINE-LIKE OBJECTS IN WATER	HIJACKING OF OIL TANKER	SEARCH AND RESCUE (SAR) AFTER HELICOPTER CRASH		FAC/FIAC OF AL DORRA OIL FIELD OPLAT
	SUSPECT DHOWS WITH CHEMICAL PRODUCTS ONBOARD	URL FAST MISSILE BOATS ENTER KUW TTW			
MARITIME POLLUTION RESPONSE			OIL SPILL AND SHIPBOARD FIRE AFTER MINE STRIKE	OIL SPILL CONTAINMENT AND SALVAGE	
MINE COUNTER-MEASURES (MCM)		HARBOR SWIMMER & LIMPET RESPONSE	U/W MINE STRIKE ON OIL TANKER		



Exercise EAGLE RESOLVE



Lessons Learned

- Chain of Command between HICON, CJTF, JOC and the Component Commands was not clear
- Component Commands were segregated and sometimes unaware of the other events affecting their operations
- J4 Logistics did not have standardized logistics request form; logistics requests differed in nomenclature, serial number, issue quantity, etc.

Best Practices

- CoC – CJTF should publish organizational charts, job descriptions, country positions, assignments, required training, etc.
- PAO – Clear, timely and unified messaging is critical
- J4 – establish Joint Logistics doctrine for all GCC
- The Kuwaiti model (MOI & MOD) for responding to hazardous material (HAZMAT) events is similar to the Incident Command System (ICS)

Your thoughts on Unified / Joint Command during the exercise

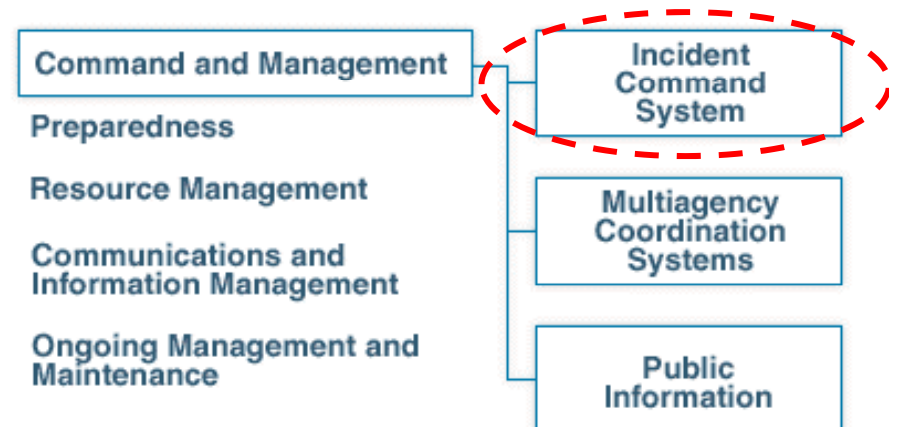
National Response Framework

- Scalable, flexible, & adaptable concepts
- Outlines specific authorities & best practices
- ID's response priorities: save lives, protect property and the environment, stabilize the incident and provide for basic human needs
- NRF provides guiding principles & 14 core capabilities
- Enables unified response to disasters and emergencies



National Incident Management System

- NIMS provides incident management basis for the NRF and defines standard command & management structures
- Uses multi-agency coordination & unified command concepts







Relationship of Plans





Involved Agencies



Federal:

- EPA
- USCG
- FEMA
- NOAA
- USACE
- DOE
- DOD
- HHS
- BOEM
- BSEE
- F&WS

State:

- Elected Officials
- Emergency Manager
- Police
- Resource Trustees
- Health Service
- Utilities

Responsible Party:

- Company Officials

Local:

- Elected Officials
- Emergency Manager
- Fire
- Police

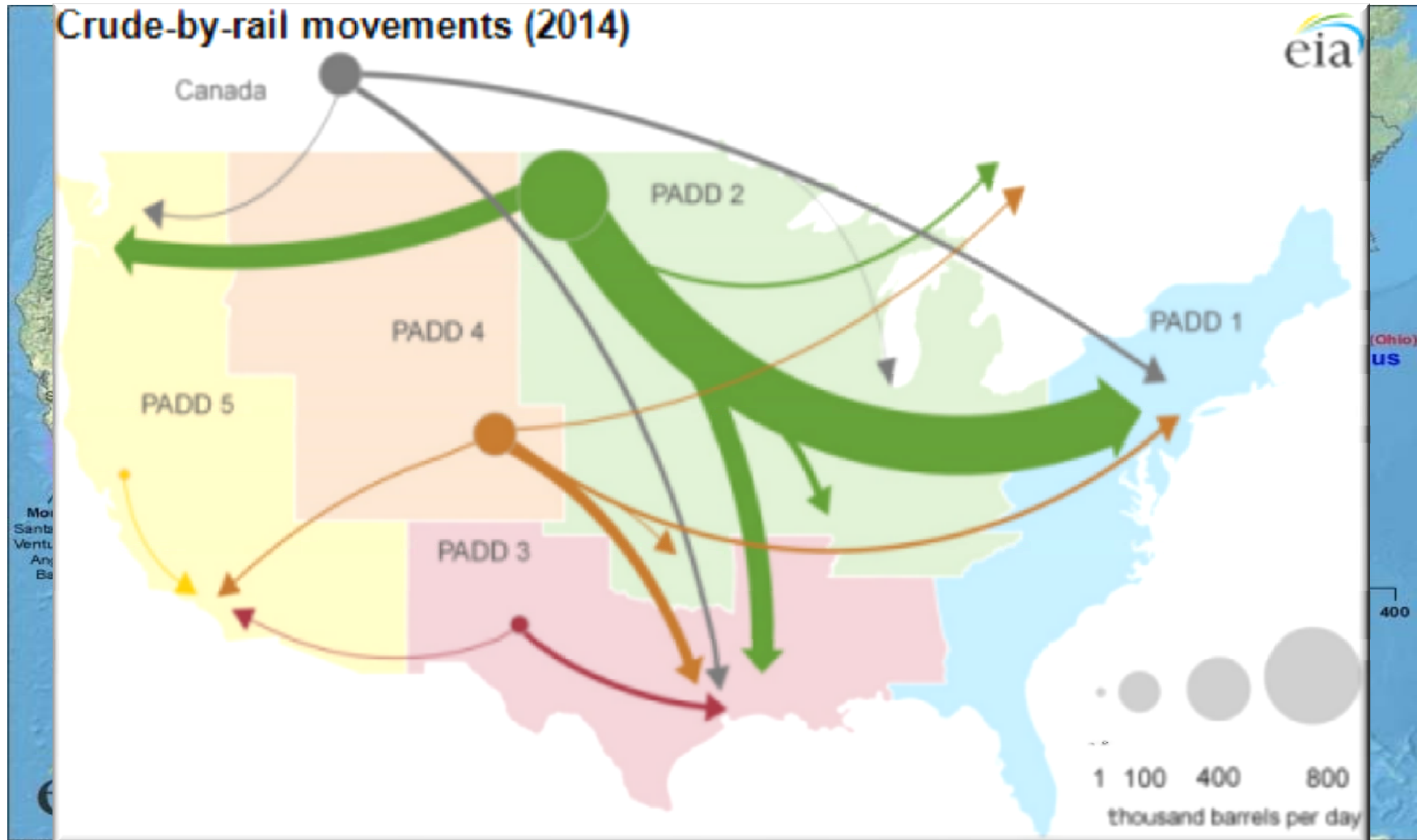
**The need for
Unified /
Joint
Command**



Response Plan Development



North American Domestic Energy Renaissance



Source: Energy Information Administration based on data from various published studies.
Updated: May 9, 2011



Real World Events



- East Jefferson St Bridge Train Derailment Paulsboro, NJ (30 Nov 2012)
- Schuylkill Arsenal St Bridge Train Derailment Philadelphia, PA (20 Jan 2014)





Rail Risk Planning Road Map



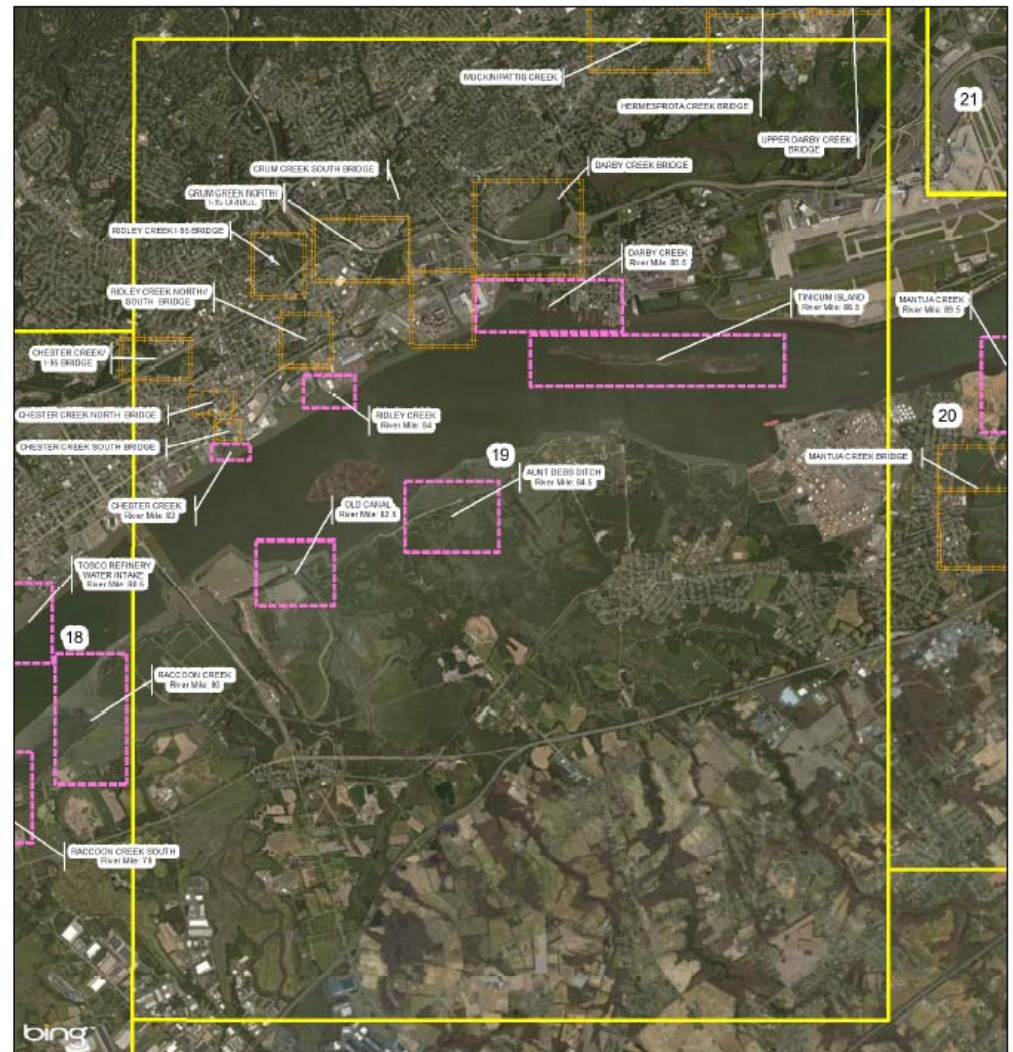
- **Info Gathering**
- **Area Committee & Industry Engagement**
- **Area Contingency Plan (ACP) Update**
- **Ecological Risk Assessment (ERA)**
- **Testing/Validation of Strategies**



What is a GRP?

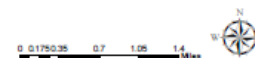
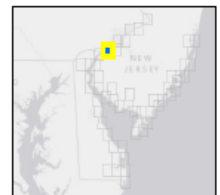
Sector DELBAY GRP ESI Grid # 19 Pennsylvania

- Enables rapid ID of priorities
- Provides tactical guidance to first responders
- Serves as “pre-approved” spill response strategy for protection of:
 - Sensitive areas
 - Resources
- Contains maps, area descriptions, resources, & outlines pre-determined booming and equipment deployment strategies



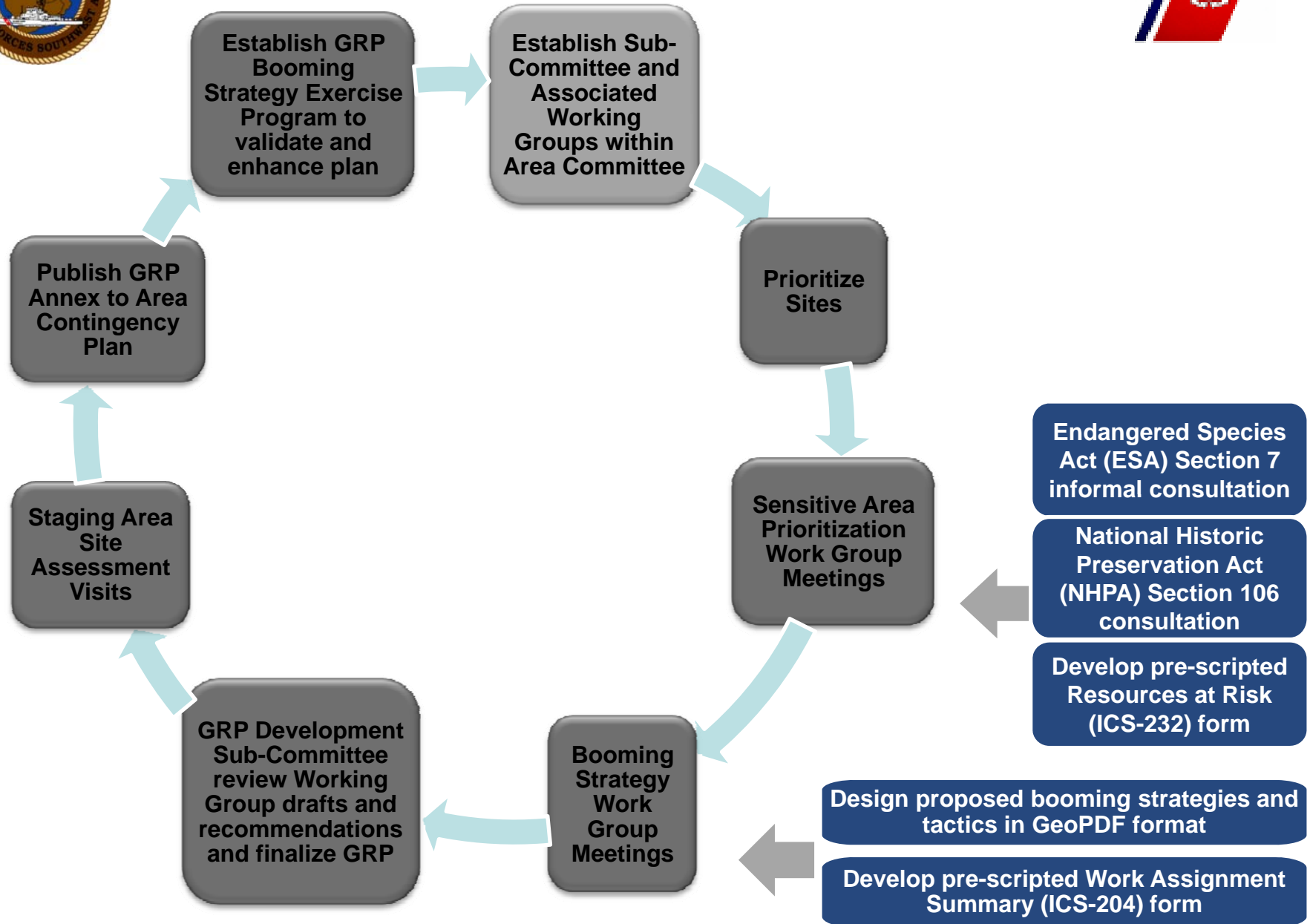
- Booming Strategy
- RR Booming Strategy
- Pennsylvania ESI Grid

MAP INDEX
ESI MAP
ICS 204
ICS 232

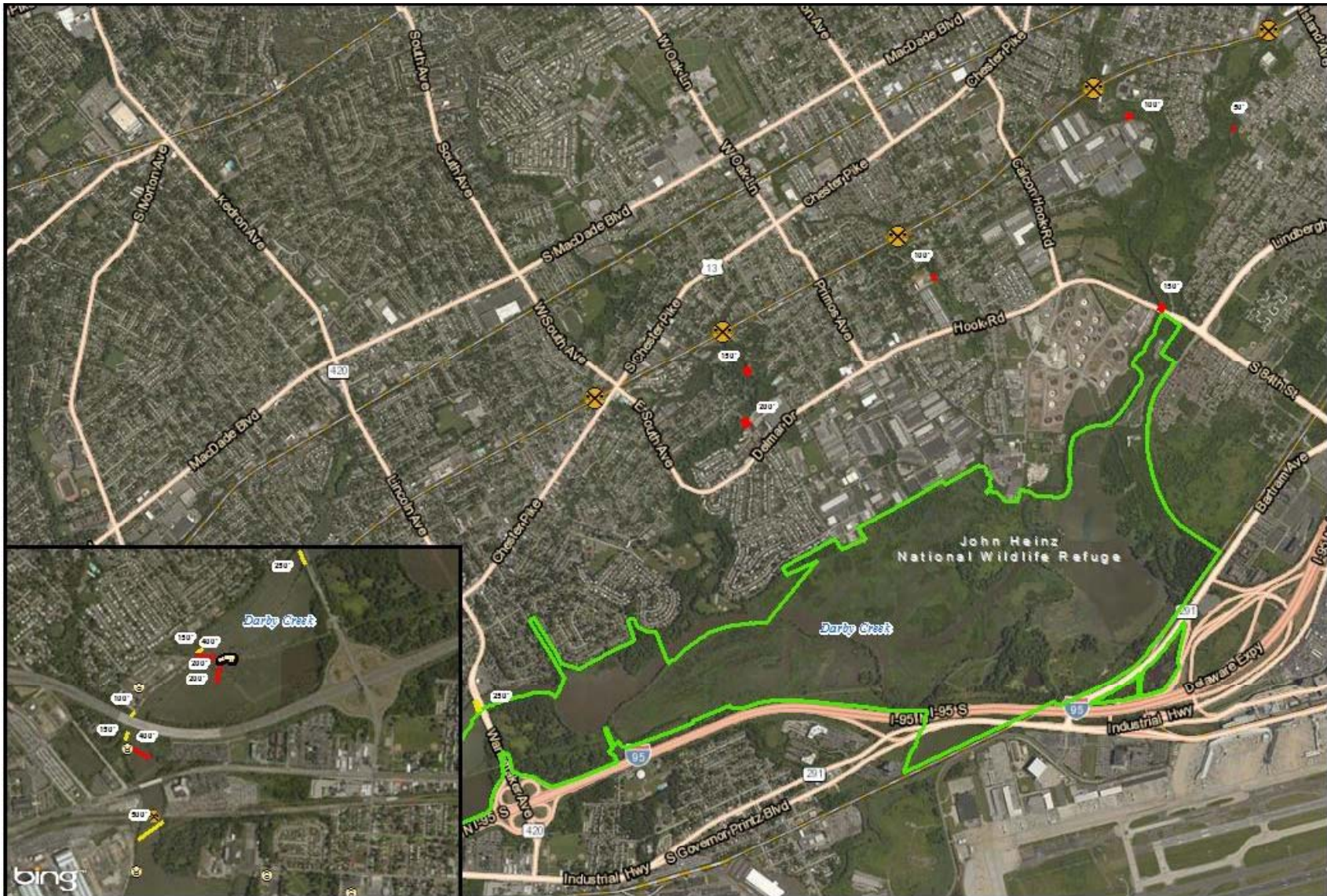




GRP Process



Darby Creek, PA



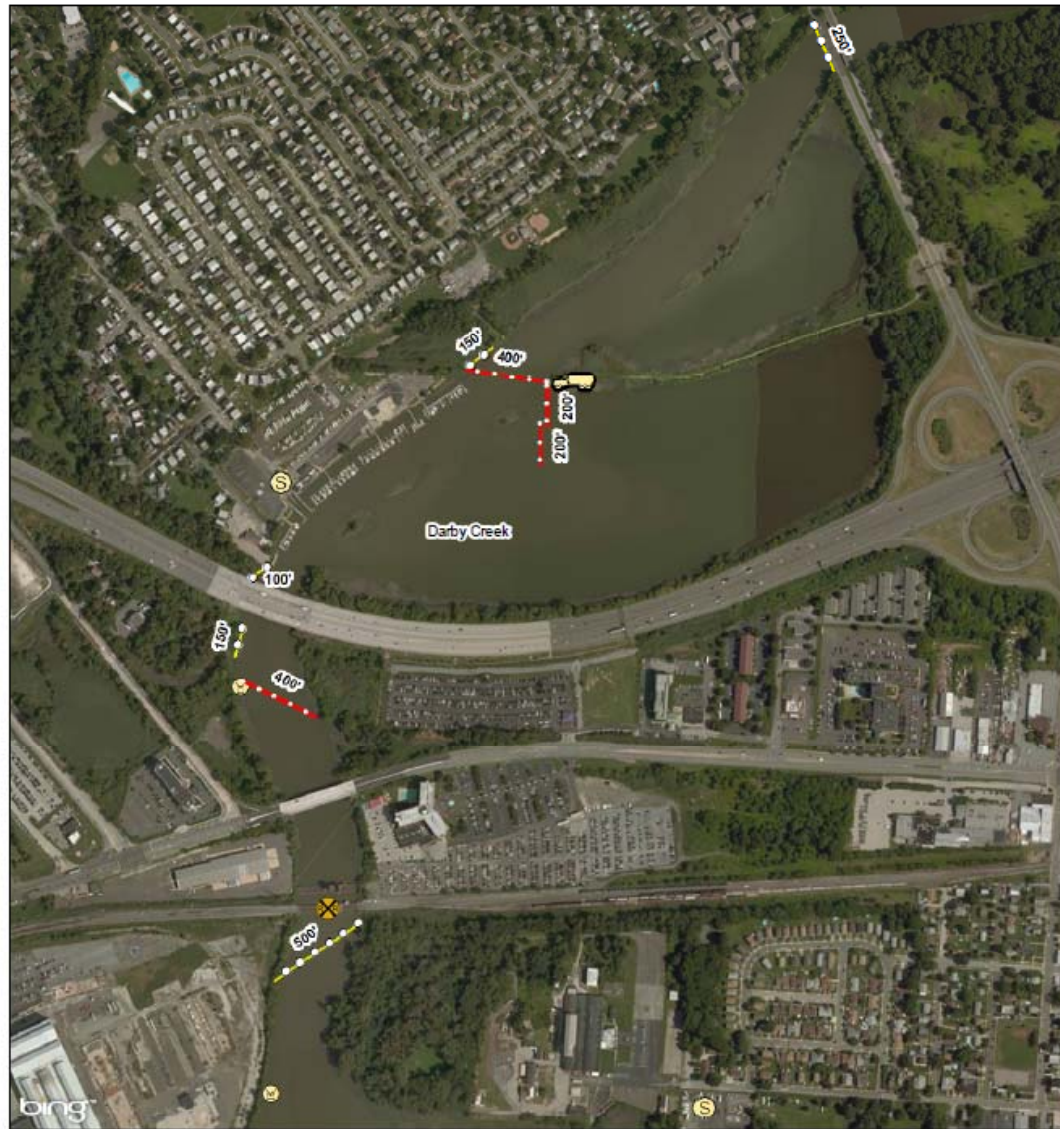
	1		Staging
	2		Skimmer
	Railroad Bridge		Vac Truck





GRP

Sector DELBAY GRP Darby Creek Bridge



Room Priority

- 1
- - - 2

Railroad Bridge

Staging

Skimmer

Vac Truck

MAP INDEX
19 INDEX GRID
ESI MAP
ICS 204 A
ICS 232





ICS-204

1. Incident Name		2. Operational Period (Date/Time)		ASSIGNMENT LIST ATTACHMENT	
		From: To:		ICS 204a-CG	
3. Branch			4. Division/Group		
5. Strike Team/Task Force/Resource (Identifier)		6. Leader		7. Assignment Location (ESI 19) Darby Creek / Muckinipattis	
8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations					
<p>Description: This booming strategy is for the Darby Creek and Muckinipattis Creek Railroad Bridges. There are two boat launches, one north and the other south of the bridge. Unfortunately the geographical area makes it difficult to get to launch from closer locations. Much of the land around the river is gated off, except for around RR Bridge.</p> <p>The mouth of Darby Creek opens into a wide cove. Upstream of the mouth are two railroad bridges, the Rt. 291 Bridge and the I-95 Bridge. Upstream marshes on Darby Creek are very sensitive and are considered of great value. The John Heinz National Wildlife Refuge is located on Darby Creek. A series of collection booms can be run between the railroad bridges and the Rt. 291 Bridge. A removal effort will need to be mounted here. The boom is stored at EXCELON Eddystone.</p> <p>Resources at Risk: Present in area are "Endangered Raptor 2", which are endangered in the State of New Jersey and threatened in the State of Pennsylvania. Also present in area is "Endangered Plant" which is endangered in the State of NJ. Present in the Delaware River is the Hickory Shad, which is endangered in the State of Pennsylvania. Shortnose Sturgeon, which is Federally endangered, and is endangered in both Pennsylvania and New Jersey. Atlantic Sturgeon, which is Federally endangered and is endangered in both New Jersey and Pennsylvania. Present in the John Heinz NWR is the Peregrine Falcon, which is endangered in the State of Pennsylvania. Also present in John Heinz NWR is the Field Dodder (plant), which is threatened in Pennsylvania, the Forked Rush, and Walter's Barnyard Grass, both plants that are considered by Pennsylvania to be endangered. See ESI Map #19 for additional information.</p> <p>Deployable Resources: <u>Primary boom</u> to go across the creek by the bridge will cover 260 feet North side boom anchored at 39.865603 -075.313861 / 39.865486, -075.312639, South boom: 39.864648 -75.313935 / 39.864835, -075.312704 <u>Secondary boom:</u> North: 39.867966 -75.31488 / 39.868254 -075.31379, South boom: 39.863064 -75.31434 / 39.862895 -75.313090 <u>Tertiary boom</u> 39.872531 -75.310255 / 39.87196, -75.309461 Muckinipattis Boom: 39.892324 -75.285349 / 39.892595 -75.285575 39.895088 -75.285388 / 39.895358 -75.285109</p> <p>Protective Boom for Refuge: 39.86944 -75.314265 / 39.87012 -75.31371 39.86923 -75.31369 / 39.87022 -75.31361 39.87032 -75.31347 / 39.87052 -75.31149 39.87086 -75.312677 / 39.87108 -75.309931 39.87146 -75.31153 / 39.87190 -75.30939 39.871933 -75.30950 / 39.871976 -75.31129 39.87311 -75.30744 / 39.872918 -75.30982</p>					
9. Other Attachments (as needed)					
<input checked="" type="checkbox"/> Map/Chart		<input type="checkbox"/> Weather Forecast/Tides/Currents		<input type="checkbox"/> _____	
<input type="checkbox"/> _____		<input type="checkbox"/> _____		<input type="checkbox"/> _____	
10. Prepared by		Date/Time		11. Reviewed by (PSC)	
				Date/Time	
				12. Reviewed by (OSC)	
				Date/Time	



ICS-232

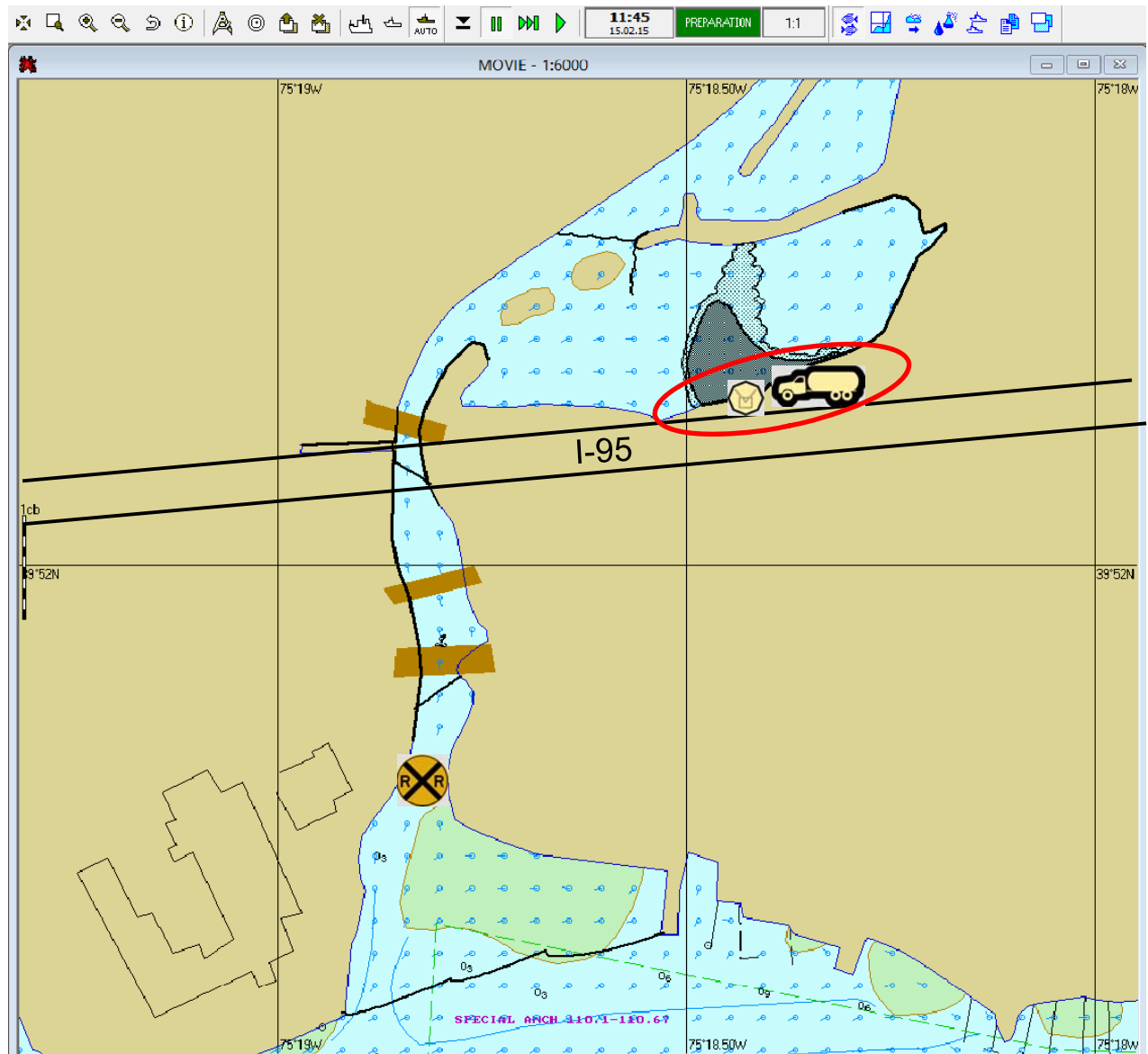
1. Incident Name GRP # PA19		2. Operational Period (Date/Time) From: [] To: []		RESOURCES AT RISK SUMMARY ICS 232-CG	
3. Environmentally-Sensitive Areas and Wildlife Issues					
Site #	Priority	Site Name and/or Physical Location	Site Issues		
[]	[]	[]	[]		
Narrative <u>Shoreline:</u> This area is primarily Exposed Solid Man-Made Structures (1B), Mixed Sand & Gravel Beaches (5), Exposed Riprap (6) Sheltered Scarps in Clay and Mud (8A), and Fresh-Water Marshes (10B). This area also includes: Exposed Wave-Cut Platforms (2A), Sheltered Solid Man-Made Structures (8B), Salt and Brackish Water Marshes (10), and Scrub-Shrub Wetlands (10D). <u>Biological Resources:</u> This area contains Diving Birds, Gulls & Terns, Passerine Birds, Shorebirds, Wading Birds, Raptors and Waterfowl. The Delaware River has numerous species of fish, bivalves, and crabs. The fresh water marshes in this area contain amphibians and turtles. <u>Threatened Endangered or Species of Concern</u> Birds: 2 types of endangered raptors, 1 type of threatened raptor, American Bittern, Bald Eagle, Black Tern, Black-Crowned Night Heron, Blackpoll Warbler, Common Tern, Great Egret, King Rail, Least Bittern, Loggerhead Strike, Northern Harrier, Osprey, Peregrine Falcon, Piping Plover, Sedge Wren, Short-Eared Owl, Upland Sandpiper, Yellow-Bellied Flycatcher, and Yellow-Crowned Night Heron. Fish: Hickory Shad (E), Atlantic Sturgeon (E), Short-Nosed Sturgeon (E). Habitat: 1 type of endangered plant, Field Dodder, Forked Rush, Walter's Barnyard Grass, Swamp-Pink. Reptiles: Eastern Redbelly Turtle, Southern Leopard Frog. <u>Human-Use Resources:</u> This area includes several boat ramps and numerous archeological and historical sites.					
4. Archaeo-cultural and Socio-economic Issues					
HUN#	Priority	Site Name and/or Physical Location	Site Issues		
123	[]	Ridley Township Marina			
168		Boeing Helicopters Center South			
181		Crozer-Chester			
316		Logan Pond Wildlife Mgmt Area	NJ Div of Fish & Wildlife		
339		Nehonsey Brook Preserve	NJ Dept of Natural Lands Trust		
395		Bridgeport Boat Yard	856/467-0943		
442		Island Marina			
492		Richard's Buttonwood Marina	James Richards: 215/397-7583		
691		John Heinz National Wildlife Refuge	USFWS		
Narrative <u>Cultural & Historic Resources:</u> TBD <u>Socio Economic:</u> TBD					
5. Prepared by: (Environmental Unit Leader) []				Date/Time []	
RESOURCES AT RISK SUMMARY				ICS 232-CG (Rev.07/04)	

Computer Based Trajectory Modeling

PISCES II Software

Scenario Details:

- Boom Type:
Protected Water
Boom (18-24")
- Product: Southern
Diesel (from NOAA's
ADIOS Program)
- Amount: 27,000 gal.
- Flood Tide from
0500-1200
- Snapshot is at 1145



Modeling courtesy of: Precision Planning and Simulations Inc. and Delaware Bay and River Cooperative.



Questions

