Massachusetts Department of Environmental Protection Three-Year Geographic Response Plan Testing Program

After-Action Report on Wellfleet Harbor (CI-05) GRP Test

Testing Date: May 26, 2010

Developed by Nuka Research and Planning Group, LLC July 2010

Project Background

MassDEP has initiated a three-year program to test GRPs at a variety of locations statewide. This long-term testing program will benefit ongoing and future GRP development throughout the state by documenting lessons learned for various oil spill response tactics under a range of conditions. The testing will also provide practical training opportunities for local responders and spill response organizations, and will improve the level of preparedness to respond to coastal oil spills statewide.

The overall purpose of the testing program is to evaluate the *tactics and strategies* and not to test or challenge the spill responders (local or professional). However, the testing process often yields important information about areas where additional training or standardization is needed to improve overall response capabilities.

For additional information on the MassDEP 3-Year GRP testing program, visit the project website at http://grp.nukaresearch.com/testing.htm

Testing Overview

The fourth GRP site tested as part of the 3-Year MassDEP program was CI-05 (Wellfleet Harbor). A half day of testing was conducted on May 26, 2010 to evaluate the draft tactics and strategies in GRP-CI-05.

Representatives from the MassDEP, Nuka Research (the contractor) and the town of Wellfleet met earlier in the preceding months to select the site and develop a testing plan (Appendix A). It was decided that the testing exercise would be run as a drill, simulating an actual oil spill. Members of the Barnstable Incident Management Team and representatives from the towns of Wellfleet, Eastham, Truro, the National Park Service, the Department of Natural Resources, and Nuka Research met a few days prior to the deployment test to establish objectives, assign positions, and develop a schedule.

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The testing day began at 8:00 a.m., when participants gathered at the Wellfleet Harbor parking lot/boat ramp for Operations and Safety Briefings. Testing concluded at approximately 12:00 p.m. The Incident Action Plan (Appendix B) included a rough schedule, as well as a list of testing objectives and other logistical and operational information.

GRP Site

Wellfleet Harbor GRP site (CI-05) opens into Cape Cod Bay on the inside of the peninsula, as part of the lower Cape.

The focus of the GRP for Wellfleet Harbor is preventing a spill in Cape Cod Bay from migrating into the inner harbor and up Duck Creek and impacting sensitive aquaculture areas and other wildlife. Boom will be deployed to protect the entrance of Duck Creek and recover as much oil as possible from the adjacent shoreline. Figure 1 shows a map of GRP-CI-05. The tactic tested is identified on the GRP map as DV-01alt. Appendix C contains a copy of the full GRP for this site.

Goals and Objectives

The goal of this test was to conduct a field test of boom deployment as shown in the GRP for Wellfleet Harbor (CI-05, See Figure 1 and Appendix C). The following testing objectives were established:

- Simulate actual incident Fire Chiefs take lead in assigning personnel, implementing tactics.
- Develop tactical and operational plans to assign personnel and resources for GRP deployment.
- Deploy equipment from Truro and Wellfleet response trailers.
- Provide opportunity for responders from BCIMT, Wellfleet, Eastham, Truro, USCG, MassDEP, and other agencies to work together in Task Force setting.
- Deploy DV-01alt using Wellfleet & Truro equipment.
- Deploy straight leg instead of cascaded boom array in order to avoid closing off the harbor.
- Evaluate GRP tactic as shown and identify any changes or modifications necessary to achieve goal of divert & collect.
- Document all activities.
- Conduct post-deployment "hot wash" to identify lessons learned.

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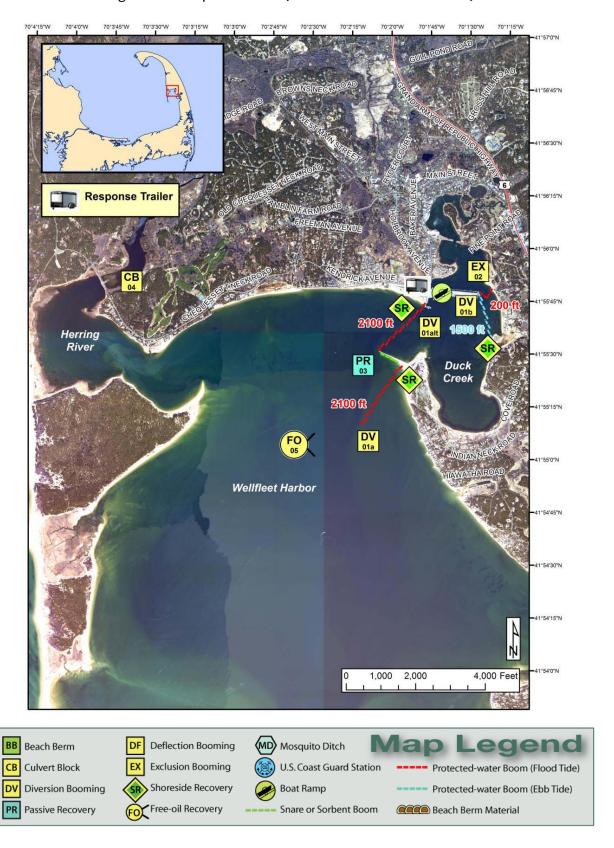


Figure 1. Map of CI-05 (GRP for Wellfleet Harbor).

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- Identify any training or planning gaps brought out by the boom deployment.
- Evaluate staging area and general logistics for deploying boom at this location.

The objectives were included in the Incident Action Plan (IAP) as well as a 214 (pay sheet), to determine what the actual cost of such an incident would be. Evaluation forms were developed to measure evaluators' assessment of whether the objectives were met.

Participation

Staff from the Wellfleet Fire Department, the Truro Fire Department, the Eastham Department of Natural Resources, the Wellfleet Harbormaster and Shellfish Departments, and Truro Harbormaster was the primary responders for this deployment test; they transported, deployed, demobilized, and stored the boom and anchors used in the test. Professional spill responders from the U.S. Coast Guard provided assistance and direction to the town responders. It was emphasized throughout the testing that these tests were designed to test the strategies and provide experience to the responders. (See Figure 2).



Figure 2. Participants Gather at the Briefing

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Personnel from Nuka Research and MassDEP acted as facilitators, providing direction, answering questions, and keeping the process moving.

There was a group of observer/evaluators who observed part or all of the day's deployment and were asked to participate in the debrief and fill out evaluation forms online. The observers included representatives of the Eastham Fire Department, Wellfleet Fire Department, National Park Service, citizens from the town of Wellfleet, and the MassDEP.

The BCIMT managed site control, and all participants were required to sign in upon entering the site (Appendix D). A list of participants from the May 26, 2010 Wellfleet Harbor GRP Test is also included in the data forms in Appendix E. The column for observer/responder was left blank if their role was unknown to the data recorder.

Equipment

The equipment (boom, anchor system, lines, floats) deployed during this test came from the MassDEP oil spill response trailers from the Town of Wellfleet and the Town of Truro (See Figures 3 and 4). Vessels were provided by the Wellfleet Harbormaster Department, the Eastham DNR, and the Truro Harbormaster Department. The BCIMT was set up in the Wellfleet Harbormaster Building on the Pier.



Figure 3. Wellfleet and Truro Oil Spill Response Trailers

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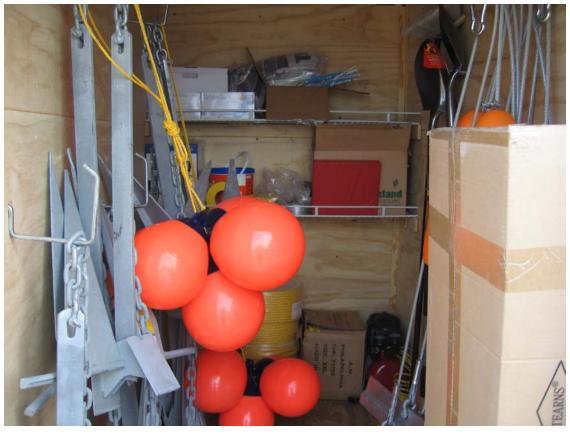


Figure 4: Equipment supplied in the trailer

Photo by David Crary, Jr., National Park Service

Summary of Testing Day

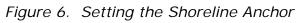
After meeting at the Wellfleet Harbor parking lot for a review of the day's objectives by Incident Commander Chief Dan Silverman, a group introduction by Elise DeCola, a safety briefing by Nick Morgan (USCG) and assignments for the incident by BCIMT member and Ret. Chief Roy Jones, the group deployed the boom for an altered version of DV-01alt, one leg of a cascaded boom array. The boom was towed into the harbor and since the tide was low, the first leg of boom had to be dragged up onto the shore and set (See Figures 5 and 6). As the tide flooded, the shoreside anchor had to be moved and secured.

The next leg of boom was connected without difficulty but as the boom stretched further into the channel the flooding tide made setting the mid-line anchors difficult. The responder vessels took turns setting the next two legs until the cascade array was in place.

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Figure 5. Towing the first leg of boom





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Although the weather was not a factor in this deployment test, the current and the flooding tide proved challenging in setting the first few anchors and handling the boom. The entire deployment was completed in two hours.

Documentation

Since on-site conditions have an impact on deployment, data was compiled on tide cycles, wind speed and direction, sea state, precipitation, and any other environmental conditions or on-scene factors. The completed site data collection form is included in Appendix E.

Standard evaluation forms were posted online for the day's testing, with standard evaluation criteria. To date, four written evaluations have been submitted (see Table 1); some participants provided verbal comments during the debrief. Photographs were also used as documentation. Appendix F contains a copy of Evaluation Forms.

Table 1: Participants' Evaluation Responses

Participants	General Comments/Suggestions	Staging Area	Anchors	Boom	Boats	ICS	Personnel
David W. Crary, Jr.	*dedicated weather observer should be assigned and current weather conditions transmitted over radio every 30 min. *standards should be in place and communicated re: PFD use based on ambient air and water temps, use by boat operations, dock and shore workers *suggest that trailer be equipped with a dehumidifier *overall, a very good drill during a very good weather window *deployment was effective and followed briefing guidelines. Onsite observations showed boom drift, anchor effectiveness, buoy obstructions and challenges, and (public) boat traffic congestion.	Ideal staging area for boom for this tactic. Excellent training site; should be repeated at different shore location near the pier on an annual basis. State of MA should provide training dollars for premium time costs so actual first responders (fire, EMS, town employees) get handson training.	Rebar should be capped when/if used.	Cleaning and loading of boom post-exercise was not organized, was not led by an identified leader, and basically was not cleaned well.	Sufficient, given the wind, tide and amount of boom deployed per 'stick'.	The inclusion of the BCIMT and use of (IAP) enhanced the exercise. Emphasis on ICS/IAP is the only way to manage a spill in Welffleet whether on town, state, or federal waters/property. This is a moot question (see eval) as ICS is mandated – if further understanding is needed, then ICS training should/must be given to agencies and organization who are not up to speed.	Yes [responders had sufficient equipment, training and knowledge to deploy the boom]. Again I stress annual training with a funding source to defray premium time costs for first responders.

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Michael Flanagan		Ideal staging area for boom for this tactic. The launching facilities in Wellfleet are ideal for deploying and retrieving the boom.	Equipment was sufficient.	Making the splice when joining sections of boom is a critical time. Having the anchor vessel secured to the fixed facilitated making the connection.	Adequate.	Yes, BCIMT and IAP enhanced the exercise.	Responders were able to effectively deploy tactic in my opinion.
Daniel Silverman	*design of the exercise was good, but the value of the exercise to local responders was less than it could have been, because funding was not provided to cover overtime and backfill costs. As a result, the local fire departments who would be the first responders to an actual spill were not able to benefit from the training opportunity. This deficiency needs to be pointed out to the DEP in the strongest terms possible. The money being collected is used to buy equipment and pay vendors to design and facilitate training, but no funds are being made available to local jurisdictions for staff expenses to receive the training. Small departments and towns can't afford the extra overtime and backfill costs, and the DEP must recognize this and make funds available from the surcharge fund. The suggestion that the regional homeland security council be looked at as a funding source is well-intentioned, but there are other areas of emergency preparedness that need that funding that don't have another alternative revenue source. There is already a revenue source that is directly related to this oil spill response program, and it should be used. Without a commitment by the DEP to fund the necessary training, those who are likely to need to use the trailers and their equipment will not be as prepared as they should be.	Ideal staging area for boom for this tactic. Easily accessed boat ramp. Ample space on pier area for support operations. Might be more of a challenge in mid-summer, when pier and harbor traffic is heavier.	Sufficient.	Sufficient.	Minimally enough vessels. More vessels with greater HP might have been able to work in relay fashion to deploy the boom faster.	Inclusion of BCIMT and use of IAP did enhance the exercise.	Responders were able to effectively deploy tactic, but there were not enough local first responders. See general comments. Would feel somewhat comfortable setting a similar boom array during an actual incident.
Gene Tully		Sufficient as a staging area for boom for this tactic.	Short a few anchors.	Did not use all the boom available.	Sufficient	Inclusion of BCIMT and use of IAP did enhance the exercise.	Unfortunately the exercise did not include most of the responders who would have to deal with a real event and therefore had no training. Those there were able to effectively deploy tactic.

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Communications

For the testing day, marine Channel 3 was assigned for Unified Command, Channel 5 for Operations and Channel 6 for Safety. Unified command was located in the Wellfleet Harbormaster Building on the town pier. The room on the second floor was used to view the deployment from the building. Incident briefings with the Unified Command were conducted in the room. Incident Commander Chief Silverman split his time between the building where Roy Jones (BCIMT) and Gene were located Tully (BCIMT, Documentation) and the beach (shoreline anchor/collection point), while Operations Commander (Mike Flanagan, Wellfleet HM) and Safety Officer (Nick Morgan, USCG) were on the water.

Safety

Throughout the deployment test, facilitators emphasized that safety was the highest priority. An initial safety briefing was given, and participants were also encouraged to abide by the safety policies of their agency or organization. All participants who were on vessels or docks were required to wear a personal flotation device at all times. Participants were instructed to dress in work clothes appropriate for the weather conditions, stay hydrated, and use sunscreen as needed.

The testing cycle was successfully completed with no safety incidents or injuries.

Observations

The GRP test yielded specific information about the tactic tested, the staging area, and the equipment at the site. The major observations and lessons learned are summarized here by theme/issue, and recommendations for how to address these issues are included where appropriate.

- Equipment was noted to be missing from all three town's trailers. Eastham
 had significant gaps in equipment, including all of their anchor floats.
 Wellfleet was also missing anchor floats. Suggestions were made for
 additional equipment that could supplement the trailers, such as line cutters
 and electrical tape.
- Current and flooding tide made deploying boom and setting anchors challenging. Because each leg of boom was towed by separate boats the connections had to be made on the water (See Figure 7). Also, the flooding tide made it necessary to reposition and adjust the shoreside anchor on the first leg (see Figure 8). It was advantageous to have the staging site in close proximity to the shoreline anchor point.
- The use of a dedicated anchor boat was positive.

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Figure 7. Connecting the boom

- With the strong current, the first leg could have been towed up-current, then allowed to drift back to shore. After setting the anchor, the first leg would have been straighter.
- The flooding tide made setting the mid-line anchors challenging. Some of the boats may have been underpowered to tow boom in such a strong current. This resulted in the leg of the array not being as straight as it could have been (See Figure 9).

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Figure 8. Moving the Shoreline Anchor to accommodate the tide





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Recommendations

Several recommendations came out of this testing day, related both to the GRP itself and to the testing process:

- Tow leg of boom up-current and allow to drift back to anchor at shoreline.
- Make sure vessels involved have adequate power to set boom in strong current.
- Continue to look for opportunities to use field exercises to test and work with BCIMT.
- Look into stipends to provide training to personnel who will be first responders in the event of a spill

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Appendices

- Appendix A: Testing Plan
- Appendix B: Incident Action Plan
- Appendix C: GRP CI-05 (as tested)
- Appendix D: ICS Sign in sheet
- Appendix E: Site Data Collection Form (completed)
- Appendix F: Evaluation Form (blank)

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Appendix A

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GRP TESTING PLAN

CI-05 Wellfleet Harbor GRP Test 05/26/10 8:00am to 12:00pm

Objectives

- Simulate actual incident Fire Chiefs/Harbormasters take lead in assigning personnel, implementing tactics.
- Develop tactical and operational plans to assign personnel and resources for GRP deployment.
- Deploy equipment from Truro and Eastham response trailers.
- Provide opportunity for responders from Eastham, Provincetown, Truro, Wellfleet, USCG, MassDEP, and other agencies to work together in Task Force setting.
- Deploy DV-01alt using Truro & Eastham equipment.
 - Deploy a slightly modified version of DV-01alt. The array will not be cascaded and will not close off the harbor.
 - o Practice cascade booming if time allows.
 - o Evaluate staging area and site access considerations.
 - Evaluate GRP tactic as shown and identify any changes or modifications necessary to achieve goal of divert & collect.
- Document all activities.
- Conduct post-deployment "hot wash" to identify lessons learned.
- Identify any training or planning gaps brought out by the GRP deployment.

Participants

Based on initial planning, participants will include individuals from:

- Boston Line/Coastline Services (spill response contractor)
- Cape Cod National Seashore
- Eastham Harbormaster
- Eastham Fire Dept.
- · Eastham Dept. of Natural Resources
- Provincetown Fire Dept.
- Provincetown Harbormaster
- Provincetown Shellfish Dept.
- Truro Town Administrator
- Truro Harbormaster
- Wellfleet Harbormaster
- Wellfleet Shellfish Dept.
- Wellfleet Fire Dept.
- Massachusetts Environmental Police
- Mass DEP
- U.S. Coast Guard
- Nuka Research and Planning Group (facilitator)

Schedule of Events

Time	Event	Location/Details
08:00	Meet for briefing & assignment of personnel to tactic	Meet near Boat Ramp in Wellfleet Harbor pier/parking lot
9:00	Deploy modified DV-01alt	Trailers in Wellfleet Harbor.
11:15	Demobilize all boom & load back into trailers	Remove boom and anchors, rinse & store boom in trailer.
11:45	Debrief	Wellfleet Harbor
12:00	Adjourn; lunch	Lunch will be provided to all participants. Those who need to return to work can take their lunch "to go."

Support Equipment

Vessels

Preliminary list of vessels:

- Eastham Harbormaster
- Truro Harbormaster
- Provincetown Harbormaster
- Wellfleet Harbormaster

Personnel

Response personnel TBA based on attendance.

Boom

1000 feet Truro Trailer (18") 1000 feet Eastham Trailer (18")

Other Information

Tides (Wellfleet)

High 1		Low 1		Hi	gh 2	Low 2		
10:55	10.32 ft	4:56	-0.66 ft	23:06	11.80 ft	17:06	0.35 ft	

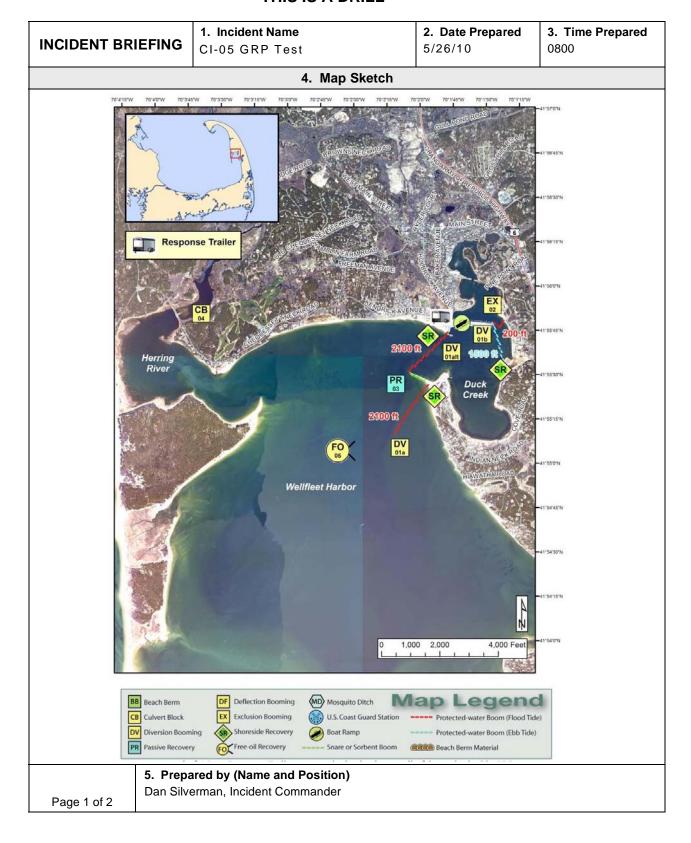
Attachments

• CI-05 GRP (Wellfleet Harbor)

Appendix B

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CI-05 GRP TEST INCIDENT BRIEFING *****THIS IS A DRILL*****



6. Summary of Current Actions ****THIS IS A DRILL.**** An oil spill has occurred and the direction of flow threatens Wellfleet Harbor The Unified Command has directed that the following components of the GRP for Welfleet Harbor (CI-05) be deployed: DV-01alt • For the purpose of this exercise, assign the resources and personnel available to deploy the GRP booming strategy at DV-01alt. Use the Incident Action Plan (IAP) forms prepared by Barnstable County Emergency Services Refer to schedule in GRP Testing Plan for timing of deployments. Refer to GRP CI-05 for resource lists and deployment directions for the tactics.

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Incident Objectives	1. Incident Name	2. Date Prepared	3. Time Prepared						
	Wellfleet Harbor GRP Test	5/24/10	15:00						
4. Operational Period (Date and	Time)		•						
5/26/10	08:00-12:00								
General Control Objectives for	the Incident (include Alternative	es)							
Provide for the safety of	responders and the public								
Set up boom for rapid dep	oloyment								
Deploy 2,100' of 18" boom and Chipman's Cove	in a cascade formation to pre	vent oil from enteri	ng the inner harbor						
Establish a collection point for diverted oil on the west side of the 1st groin to the west of the L shaped pier									
Evaluate resource needs f	or future deployments								
Weather Forecast for Operation	nal Period								
Partly sunny, with a high near 73.	North northwest wind between	10 and 13 mph.							
7. General Safety Message									
All personel to wear PFD's wher	working on the water.								
8. Attachments (check if attached	l)								
✓ Organization List (ICS 20	3)	S 206) 🔲							
✓ Assignment List (ICS 204	1) Incident Map								
✓ Communications Plan (IC	S 205)								
9. Prepar	red by (PSC)	10. Approved by (IC	()						
ICS-202		Silv	erman						

ORGANIZA	ATION ASSIGNMENT LIST	9. Operations S	Section
Incident Name	Wellfleet Harbor GRP Test	Chief	FLANAGAN
2. Date	5/24/10 3. Time 15:00	Deputy Safety	ASSIGNED TO BOAT ON WATER
4. Operational Period	5/26/10 08:00-12:00	· · · ·	vision/Groups
5. Incident	Commander and Staff	Branch Director	
Incident Commander	SILVERMAN	Deputy	
Deputy		Division/Group	BOOM DEPLOYMENT
Safety Officer	FOLEY	Division/Group	BOOM SETUP
Information Officer	O'BRIEN	Division/Group	BOOM STAGING
Liaison Officer		Division/Group	COLLECTION
6. Agency I	Representative	Division/Group	PERIMETER CONTROL
Agency	Name	b. Branch II - D	ivision/Groups
NUKA	DECOLA & SCHNEIDER	Branch Director	
MASS DEP	PACKARD	Deputy	
CCNS	CRARY	Division/Group	
BOSTON LINE SVCS	CORNELL	Division/Group	
USCG	MORGAN & GUILLEMETTE	Division/Group	
-		Division/Group	
		Division/Group	
_		·	Division/Groups
_		Branch Director	
		Deputy	
		Division/Group	
7. Planning	Section	Division/Group	
Chief	JONES	Division/Group	
Deputy	JOINES	Division/Group	
Resource Unit	NIGRO	Division/Group	
Situation Unit	NIONO	d. Air Operatio	ons Branch
Documentation Unit	TULLY	Air Operations Branch Director	
Demobilization Unit	10227	Air Support Supervisor	
Human Resources		Air Attack Supervisor	
Technical Specialists	(name / specialty)	Hilicopter Coordinator	
recrimical opecialists	(name / specialty)	Air Tanker Coordinator	
		10. Finance Se	ction
		Chief	JONES
		Deputy	JOINES
_		Time Unit	
8. Logistics	Section	Procurement Unit	
Chief	To Be named	Comp/Claims Unit	
Deputy	TO be numed	Cost Unit	
Service Branch Dir.		3000 01110	
Support Branch Dir.			
Supply Unit			
Facilities Unit		Prepared by (Resource Unit Lea	ader)
Ground Support Unit			aucı)
Communications Unit	To Be named		
Medical Unit	Wellfleet Fire Officer/Paramedic		
Security Unit	wentieer in e Officer/Faranteatc		
Food Unit		1	

DIVISION ASSIGNMENT LIST	1. Branch	1. Branch			2. Division/Group		
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Branch Direc	tor		Air Attack Superviso	or No.			
			6. Resources A	ssigned this	Period		
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8. Special Ins	etructions	•					
o. Opediai iris	Structions						
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Prepar	ed by (R	ESL)	Approved by (P	SC)		Date	Time
					F	5/24/10	15:00

ICS-204

DIVISION	ACCION	IMENT LIST	1. Branch		2. Divisio	n/Group	
DIVISION	ASSIGN	INIENI LISI				BOOM 57	AGING
3. Incident Na	ame		4. Operational Period		!		
Wellfle	et Harbor	GRP Test	Date:	5/26	/10	Time:	08:00-12:00
			5. Operations	Personnel			
Operations C	hief	FLANAGAN	Division/Group Super	visor			
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7. Control Op	erations					ļ.	
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8. Special Ins	structions						
Farmer Car	Const.		9. Division/Group Com			Ome /01 -	F.,,
Function	System	Grp/Channel	Frequency	Function	System	Grp/Channel	Frequency
Command	800 MHz			Support	VHF		
Prepa	red by (RE	SL)	Approved by (PSC)			Date	Time
ICS-20	04				5,	/24/10	15:00

DIVISION	I ASSIGN	IMENT LIST	1. Branch	2. Division/Group COLLECTION			
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	eet Harbor	GRP Test	Date	5/26	6/10	Time:	08:00-12:00
			5. Operation	s Personne	el		
Operations C	Chief	FLANAGAN	Division/Group Superv	/isor			
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108-3	04					/24/10	15:00

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O T	77			6. Resources Assi	gned this F	Period			
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Boat Strik	ke Team	To be na	med						
7. Control Op			. .						
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				<u>-</u>	west of th	e L shape	d pier thus pre	venting the spill from	
entering the	inner har	bor and Ch	ipmans	s Cove					
8. Special Ins	structions								
Use PFD'S o	and Gloves								
Function	System	Grp/Cha		D. Division/Group Com Frequency	munication Function	Summary System	Grp/Channel	Frequency	
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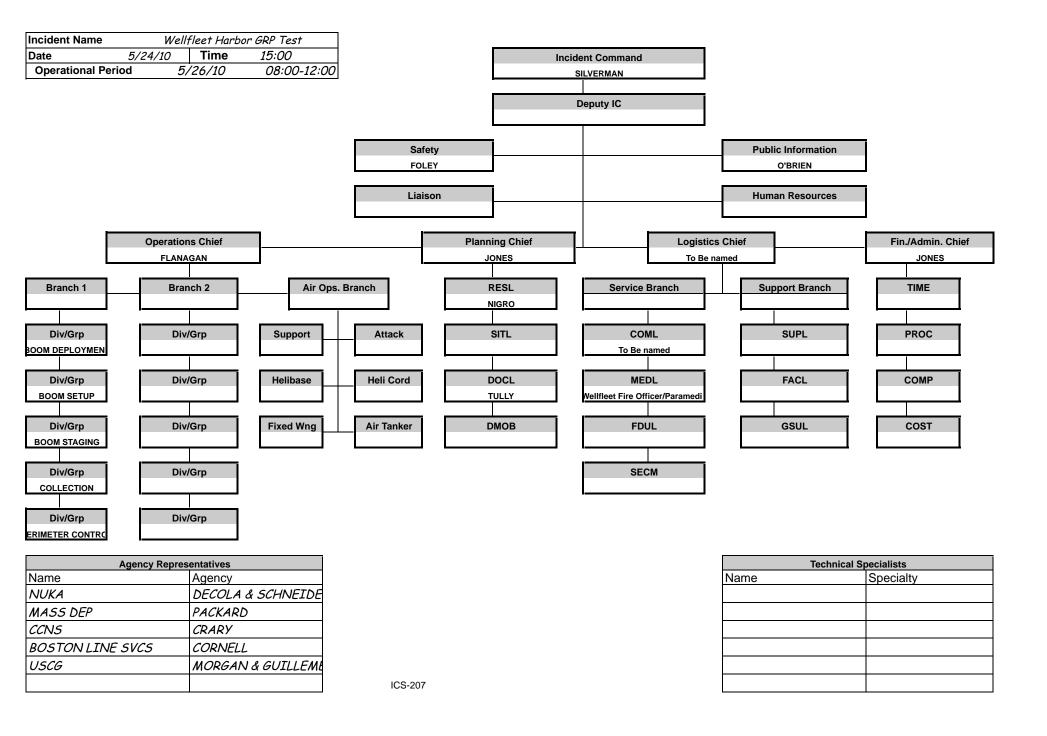
ICS-204

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DIVISION	N ASSIGN	NMENI L	ISI				PERIMETER	CONTROL
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				5. Operations	Personnel			
Operations C	Chief	FLANAG	SAN	Division/Group Superv	isor			
Branch Direc	tor			Air Attack Supervisor N				
Otalia Taa	/Ta ala			6. Resources Assig	ned this Pe	riod		
Strike Tea Force/Re Design	source	Leade	er	Number Persons	Trans. Needed	Drop (Off PT./Time	Pick Up PT./Time
		Coast G	uard					
7. Control Op		om enterin	the c	operational area				
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8. Special Ins	structions							
			C). Division/Group Comm	unication S	ummary		
Function	System	Grp/Cha		Frequency	Function	System	Grp/Channel	Frequency
Command	800 MHz				Support	VHF		
_								
Prepa	ared by (RE	SL)		Approved by (PSC	5)		Date	Time
I						۱ 5	/24/10	15.00

ICS-204

INCIDENT DA		FIGNIC DI ANI	Incide	ent Name	Date/Time Prepared	Operational Period Date/	Time
INCIDENT RA	DIO COMMUNICAT	IIONS PLAN		leet Harbor GRP Test		5/26/10	08:00-12:00
			4. B	asic Radio Channel Util	ization		
Function	Radio Type/Cache	Group/Chan	nel	Frequency/Tone	Assignment	Remarks	i
Command	800 MHz						
Tactical	VHF						
5 Prepared by (C	communications Unit)						

I Madical Plan			Incident Name		Date Prepared Time Prepared		Operational Period				
		leet Harbor GRP Test 5/24/10 15:00					5/26/10 08:00-12:00				
5. Incident Medical Aid Stations											
Medical Aid Stations				١o	cation					Parar	nedics
IVIEUICAI AIU STATIONS			Location						Yes	No	
HARBOR MASTER BLDG			WELLFLEET MARINA	١						Х	
			6. Trans	sportation							
A. Ambulance Se	rvices										
Name				Address				Phone	Parar	nedics	
									Yes	No	
WELLFLEET FIR EASTHAM FIRE			LAWRENCE ROAD, WELLFLEET, MA					ВСС	911	X	
EASTHAM FIRE	DEP 1.	RO	UTE 6, EASTHAM, MA					BCC			
B. Incident Ambu	lances									Dava	
Name	;		Location							nedics	
W/C C CCT CTD		- 114	ADDODA ACTEDIC DUTI DENC MENTE ELECT MADENA						Yes	No	
WELLFLEET FIR	ב טבר ו	HA	ARBORMASTER'S BUILDING, WELLFLEET MARINA							X	
			7. Ho	spitals			1				
Name			Address		Trave	el Time I	Phone	Helip	ad	Burn	Center
	D 4 D 14 1				Air	Grnd		Yes	No	Yes	No
CAPE COD HOSP.	PARKS	OIKEEI, F	HYANNIS, MA		15	35	508-775-1800)	X		X
FALM. HOSP	M. HOSP 100 TER HUEN		DRIVE, FALMOUTH, MA		20	75	508-548-5300)			X
							Х				
8. Medical Emergency Procedures											
Report all injuries to your supervisor immediately											
Call 911 for any signficant injuries. Incident ambulance may handle minor injuries.											
Notify Safety Officer of any injuries											
		/h /h - !' :	11.51	1_		1 /2					
Prepared by (Medical Unit Leader Reviewed by (Safety Officer)											



UNIT LOG		1. Incident Name		2. Date Prepared	3. Time Prepared
		Wellfleet Harbor GRF	Test	5/24/10	15:00
4. Unit Name/Designators		5. Unit Leader (Name and Posi	tion)	6. Operational Period	
				5/26/10	08:00-12:00
		7. Personnel Roste ICS Position	r Assigned		
Name		ICS Position		Home	e Base
Time		8. Activity L	og Major Events		
Tillie			iviajoi Everiis		
9. Prepared by (Name	and Position)				

Incident Action Plan

ICS 223 Health and Safety Message

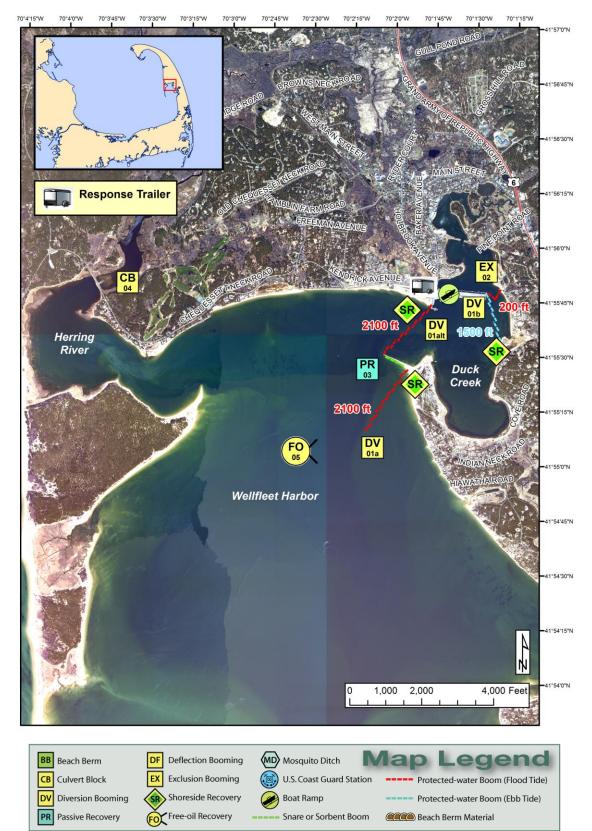
Incident Name	Data Propored:	Time Propored:			
Wellfleet Harbor GRP Test	Date Prepared: 5/24/10	Time Prepared: 15:00			
Operational Period Date: Operational Period Time:					
5/26/10	operational remov	08:00-12:00			
3/20/10	I	00.00-12.00			
Major Hazards and Risks: FALLING OVERBOARD					
COLD WATER					
SUN EXPOSURE					
Narrative: ALL PERSONNEL WORKING ON WATER SHALL WEAR PFD'S SAFETY VESSEL TO MONITOR WORKERS ON THE WATER AND BE READY TO PICK-UP PERSONNEL WHO FALL OVERBOARD WEAR GLOVES TO PROTECT HANDS FROM COLD WATER WEAR SUNSCREEN WHEN NECESSARY					
Prepared By:	ICS Position:				
Approved By:	ICS Position:				

Appendix C

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Wellfleet Harbor CI-05



A total of 4 State Response Trailers are required to implement all of the tactics in this GRP.

Responders should always consider on-scene conditions before deploying GRP tactics. Tactics may not be safe or effective under certain conditions. Responder safety should always be the first priority.





Cape and Islands Geographic Response Plan Wellfleet Harbor CI-05

ID	Location and Description	Response Strategy	Implementation		
CI-05-01 DV	Wellfleet Harbor a. Lat. 41°55'26.5"N Lon.70°01'57.6"W Alternate: Lat. 41°55'45.2"N Lon. 70°01'49.8"W b. Lat. 41°55'33.4"N Lon. 70°01'24.7"W	Divert and Collect - Shoreside Place and anchor sections of boom in a cascaded fashion to divert the oil to the identified shoreside collection locations.	Deploy anchors and boom with skiffs. For (a) place 7x 300ft. sections of 12 to 18" boom at the proper angle to divert incoming oil to the collection site at the base of the spit. For (alt) place 7 x 300ft. sections of 12 to 18" boom across the entrance to the harbor. Set up shoreside recovery on Shirttail Point and tend throughout the tide. For (b), on an ebbing tide with oil coming from the harbor place 5 x 300ft. sections to divert oil.		
CI-05-02 EX	Wellfleet Harbor Lat. 41°55'46.2"N Lon. 70°01'24.9"W	Exclusion Exclude oil from entering or leaving Wellfleet Harbor.	Deploy anchors and boom with skiffs at high tide. Place 200ft of 16 to 18" boom in an array in a chevron pattern with the apex extending into the harbor if the oil is coming from within the harbor and extending out if the source is outside the harbor. Structures in the harbor may provide anchoring points for the boom. Tend throughout the tide.		
CI-05-03	Wellfleet Harbor Lat. 41°55'29.3"N Lon. 70°02'03.3"W	Passive Recovery Place passive recovery tactics to recover oil and prevent it from entering sensitive areas. Deploy at locations that are likely to be impacted and the booms can be adequately secured.	Place and anchor snare or sorbent boom along the jetty at the entrance to the harbor. Replace as necessary to maximize the recovery.		
CI-05-04	Herring River at Chequesset Neck Road Lat. 41°55'51.9"N Lon. 70°03'49.5"W	Culvert block Close off the water control structure on the Herring River at Chequesset Neck Road to prevent oil from being carried up the Herring River by a flood tide.	Consult with local public works to facilitate the closure of the flow into the Herring River under the Chequesset Neck Road. This will be executed on an ebb tide to prevent the migration of oil further up the river. Note that although it is preferable to block the culvert on the ebb tide, it is most important to implement as early as possible. Flow may be re-established as the tide changes.		
CI-05-05	Wellfleet Harbor Nearshore waters in the general area of: Lat. 41°55'23.8"N Lon. 70°02'16.0"W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Wellfleet Harbor depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Wellfleet Harbor. Use aerial surveillance to locate incoming slicks. Ensure that responders have experience with on-water free-oil recovery.		

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Cape and Islands Geographic Response Plan Wellfleet Harbor CI-05

ID	Response Resources	Staging Area	Resources Protected	Special Considerations		
	-	Site Access				
DV DV	Deployment Equipment 3600 ft. 12 to18" boom 34 anchor systems 4 anchor stakes 2 shoreside recovery systems Vessels 2 skiffs Personnel/Shift 6 total (1 vessel operator + 2 responders per vessel) Tending Vessels 1 skiff Personnel/Shift 4 total (1 vessel operator + 3 responders)	Harbor Boat Ramp and parking area Road access is available on each shore. (Rte 6 to Main St. to Holbrook Ave to Commercial St. and Kendrick Ave.) Coordinate with CCNS for vehicle access to the gut and Jeremy Point. Boat ramps may not be useable at low tide. Chart 13250-1	Fish-shellfish, finfish Birds-waterfowl concentration Marine mammals- seals Habitat- marsh, sheltered tidal flats Human Use- Commercial boat harbor, aquaculture, high-use recreational area Land management – CCNS	Vessel master should have local knowledge. Entire site surveyed: 10/30/07. Federal and State listed threatened wildlife may be present, particularly from March through August, limiting site access, especially near Jeremy Point. Coordinate with CCNS, USFWS, and the Mass. Natural Heritage and Endangered Species Program. Tested: not yet		
CI-05-02 EX	Deployment Equipment 200 ft. 12 to18" boom 3 anchor systems 2 anchor stakes Vessels/Personnel/Shift Same as CI-05-01 Tending Vessels/Personnel/Shift Same as CI-05-01	Same as CI-05-01	Same as CI-05-01	Vessel master should have local knowledge. Tested: not yet		
CI-05-03	Deployment Equipment 800 ft. snare or sorbent boom 8 anchor stakes Vessels/Personnel/Shift Same as CI-05-01 Tending Vessels/Personnel/Shift Same as CI-05-01	Same as CI-05-01	Same as CI-05-01	Use snare boom for persistent oils and sorbent boom for non-persistent oils. Passive recovery is preferred tactic for use on CCNS shoreline areas, if feasible.		
CI-05-04	Deployment Transport 1 truck Vessels/Personnel/Shift Same as CI-05-01 Tending Vessels/Personnel/Shift Same as CI-05-01	Same as CI-05-01	Same as CI-05-01	Note that planning is underway for the restoration of tidal hydrology to the Herring River system; the current water control structure will be modified significantly as restoration proceeds.		
CI-05-05	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Same as CI-05-01	Same as CI-05-01	Vessel master should have local knowledge. Use extreme caution, shoal waters with, rocks & continually shifting sand bars. Currents and winds are locally variable and can create dangerous operating environments.		

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Nuka Research and Planning Group, LLC





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Site Photographs and Contact Information



Contact Information:

Wellfleet-Fire: (508) 349-3702

Wellfleet-Harbormaster & Marina:

(508) 349 0320

Wellfleet-Shellfish Department:

(508) 349-0325

NPS/Cape Cod Nat'l Seashore:

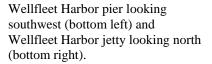
(617) 242-5659 (24 hr.)

USFWS: (413) 539-3194

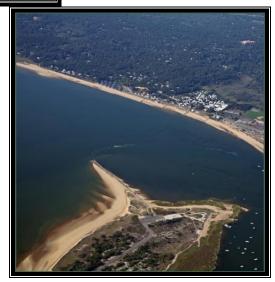
Wellfleet inner harbor, jetty and pier looking northeast.



Wellfleet Harbor pier and mooring fields looking north.







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Nuka Research and Planning Group, LLC



Appendix D

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1. Incident Name: Wellfleet Harbo	or Spill	2: Operational Period: From: 0700	To: 1800				K-IN LIST (Personel) ICS 211p-OS
Personnel Check-in Information					8. Initial Incident Check-in?		9. Time
4. Name	5. Depa	artment / Agency	6. Assignment		7. Contact phone	HR Rate	In Out
1 Au SIEVEREMAN	WELL	FLEST FID /BOINT	10		774 836 53 W		0730
Gene TULLY	Bo	IMT	PLANNING/	RASOIRER			0730
ROY E, JONES TI	BCI	MT PSC	PSC /		508-176-6898		0730
Miko Flanggan	wells	leof Itun	OPS CI	oef.	508-349-0320	0	6730
Wellfleet Spill Traile	<u></u>	U			(1	D	0736
ZI Alcar ZOOHA	ttu	Boat				D	0730
20 Alcau 150HD	Hu				L ^c	O	0750
16 Acces 45 HP	1+1	y BOAT			(('	П	6730
ANDREW Koch	54	ellefish Deg			508-349- 0325	D	0805
Chris Manully	She	11 Ash			" r	D	0805
Joshua Niglo	DC	R	Resource		503-939-4094	D	08d
Lew Crotenu	We	11 fleet HM. of			508-3490230	0	0806
Rachel Hutchinson	Easi				508-240-5972	0	08/0
19" Carolina Skiff 40	HP &	Easthan DNR			11	П	0910
Bastham Spill Trailer		Easthern DNR			1)	0	0810
Amie Vus	ACC	Eastham DNR			715-892-0986		0810
Joe Francis	Trur	· Hn			508-349-2555		810
Peter Carlow	East	ham DNR			508-240-5972	0	8:13
- DAVID GRARY JR		- CAPECOD NS			508-274-5221 (cell)		8:13
SULENGIME 270 100 GM	400	PICKUP FURD 150			11	0	
tatrick Grady	Mass	Env Police			800 632-8075	D	8:00
Clint Austin						D	8:00
Barbara Hustin	Sh	ellfisherman		**************************************	508 360 2183 474-216-9367	n	0. 0
10. Prepared by: J. Nigro	Dat	e/Time: 5/26/2010 0700	11. Date/Time Se	ent to Resources	Unit:		

NON PARTICIPANTS

1. Incident Name: Wellfleet Harbo	r Spill	2: Operational Period:	5/26/2010	3. Check-in Lo	cation:	CHECK-	IN LIST (Personel) ICS 211p-OS
		From: 0700	To: 1800	☐ Command Pos ☐ Staging Area:	st Other:Wellfleet Harbor Parking Lot		1CS 211p-OS
Personnel Check-in Information					8. Initial Incident Check-in?		6 (2)
4. Name	- D						9. Time In Out
	5. Depa	artment / Agency	6. Assignment		7. Contact phone	HR Rate	
Julye Hutcheson	Mas	9300	Observer		508 946 2852		
Dan Crathan		SIDER	obseven		500 946 2721		
JASON NATTI	U.	5 CG P-70WN	OBSERVE	ER	617 233 8817	D	
NICK MORGAN	U. 5	S. C. G MSD CC	OBSERV	E12	508 - 968 - 6556	Ū.	
JAKE GUILLEMETTE	USCO	MSD CAPE COD	GBSERVER		508-968-6556	D	
						- 11	
ELISE DeCola RICH PACKA	NU	KA	Facil. / Re	sponder	508-454-4009		
RICK PACKA	TRD		Facil. / Ro	sponder		[]	
			1			D D	
	•					U	
						0	
BARRY		55 -					
CALER Queen	NU	KA	Observer				
SANN ESCHNEDER	NU.	KA	Observer-	-LOGISTICS	508-468-6578	O O	
			LIASIO			U	
						D D	
10 Dyonayad hay t N	D	I/DI*				0	
10. Prepared by: J. Nigro	Date	e/Time: 5/26/2010 0700	11. Date/Time Se	nt to Resources U	Jnit:		

1. Incident Name: Wellfleet Harbo Drill	r Spill	2: Operational Period From: 0700	To: 1800	□ Command	ic		K-IN LIST (Personel) ICS 211p-OS
Personnel Check-in Information					8. Initial Incident Check-in?		9. Time
4. Name	5. Depa	artment / Agency	6. Assignmen	nt	7. Contact phone	HR Rate	In Out
Brinin Dravis		BCREPC	P10/	(sub)	508- 375-6908	7 Rate	540
Brinin DAVIS	In	ym F.D			774-836.8482		340
PAUL BRAZIL		eo F.D.			774-836.8482		346
JIM WILLS SEAN O'BRIEN	u	REPC	Em PIO	5	50823767.20	D	10
SEAN O'BRIEN	BC	REPC	PIO		508-737-4118	0	9.78
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10. Prepared by: J. Nigro	Date	e/Time: 5/26/2010 0700	11. Date/Time	Sent to Resource	s Unit:		

Appendix E

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Test Conditio	ns Data Sheet
ALL FORMS IN THIS PACKET SHOULD BE Use a separate set of forms for each individu	COMPLETED IN FULL BY FACILITATOR. ual tactic tested.
Data Recorder Name: Sanne Schneider	Data Recorder Organization: Nuka Research
Date: May 26, 2010	GRP Site Name: Wellfleet Harbor
GRP # CI-05	Tactic # DV-01alt
Test Start Time (begins at completion of safety & operation briefings): 0915	Test End Time (ends when all equipment removed and demobilized either back to trailer or to new testing site): 1130
Tide stage at start time: Mid-tide, flooding	Tide stage at end time: High tide
Tide height at start time: Approx. 4 ft	Tide height at end time: Approx. 10.2 ft
Approximate wave height (ft) during test: N/A	Approximate wave period during test (describe): N/A
Average wind speed (kts) during test: 5-10	Wind direction during tests: SW
Max wind speed during test: 10 kts	Estimated visibility (mi) during tests: 10 mi
Estimated current speed at start time: 5-8 kts	Estimated current speed at end time: 5 kts
Current direction at start time: SW	Current direction at end time: SW
Notes:	1

Deployment De	tails Data Sheet		
Data Recorder Name:	Data Recorder Organization:		
Sanne Schneider	Nuka Research		
Date:	GRP Site Name:		
May 26, 2010	Wellfleet Harbor		
GRP #	Tactic #		
CI-05	DV-01alt		
Total elapsed time required to deploy tactic: 2 hrs 15 min	Number of vessels used to deploy (do not count observers): Four		
1. Vessel information (fill out for	or each vessel involved)		
Vessel name & ownership:	Type:		
Wellfleet Harbormaster	Alcor		
Length: 21'	Engine type & HP: Honda, 200HP		
Vessel name & ownership:	Type:		
Wellfleet Harbormaster	Alcor		
Length:	Engine type & HP:		
20'	Honda, 150HP		
Vessel name & ownership:	Type:		
Wellfleet Harbormaster	Alcor		
Length:	Engine type & HP:		
16'	Honda, 45HP		
Vessel name & ownership:	Type:		
Eastham DNR	Carolina Skiff		
Length:	Engine type & HP:		
19'	40HP		

Deployment Details Data Sheet				
2. Response Personnel information				
Number & type of response personnel required per GRP: For DV-01alt deployment, 6 personnel (2 vessel operators, 4 responders)				
Total number of personnel involved in deployment: 13	Number of vessel operators: Three			
Number of vessel-based responders: Six	Number of shore-based responders: Four			
List all response personnel by nam observers or facilitators):	e and organization (do not include			
Responder name	Organization			
Barbara Austin	Shellfisherman			
Clint Austin	Shellfisherman			
Paul Brazil	Truro Fire Department			
Peter Carlow	Eastham Department of Natural Resources			
Len Croteau	Wellfleet Harbormaster			
Dan Crafton	MassDEP			
Brian Davis	Truro Fire Department			
Joe Francis	Truro Harbormaster			
Julie Hutcheson	MassDEP			
Rachel Hutchinson	Eastham Department of Natural Resources			
Andy Koch	Wellfleet Shellfish Department			
Chris Mannila	Wellfleet Shellfish Department			
Amie Vos	Eastham Department of Natural Resources			

Deployment Details Data Sheet

3. Response Equipment information

Amount and type of boom, anchor sets, and other equipment required per written GRP:

2100' boom, multiple anchor sets

Type (size) of boom and other equipment used in deployment:	Total amount of boom used in deployment:
18" boom	1000′
Number of anchor sets used in deployment:	Other equipment used during deployment:
Four	Danforth Anchor used on shore
Boom configuration in GRP as written: Cascade array	Actual boom configuration during deployment tests: First leg of cascade array

Describe major differences/changes to deployment compared to GRP as written.

Due to time constraints and in order to leave the harbor open, only the first leg of the array was deployed.

Based on deployment, are changes recommended to GRP? (consider input from responders, observers, and facilitators)

No changes were recommended, except to use a boat with more power to assist in setting the mid-line anchors and possibly towing the entire leg out farther, letting it drift down and setting the shoreline anchor last.

Describe how on-scene conditions impacted deployment overall, and list any observations regarding the potential for local conditions to impact future deployments of this GRP.

The tide was strong and it was difficult to set the leg straight.

Deployment Details Data Sheet

4. Participant information

Total number of participants (responders, facilitators, observers, other): 31

other):31			
List all participants by r	name and organization:		
Participant	Organization	Role (Observer, Facilitator or Responder)	
Rich Packard	MassDEP	Facilitator	
Dan Crafton	MassDEP	Responder	
Julie Hutcheson	MassDEP	Responder	
Dan Silverman	Wellfleet Fire Dept.	I.C.	
Roy E. Jones	BCIMT	PSC	
Mike Flanagan	Wellfleet Harbormaster	Ops. Comm.	
Gene Tully	BCIMT	Planning/Resource	
Andrew Koch	Wellfleet Shellfish Dept.	Responder	
Chris Mannila	Wellfleet Shellfish Dept.	Responder	
Joshua Nigro	DCR	Resource	
Len Croteau	Wellfleet Harbormaster	Responder	
Rachel Hutchinson	Eastham DNR	Responder	
Amie Vos	Eastham DNR	Responder	
Joe Francis	Truro Harbormaster	Responder	
Peter Carlow	Eastham DNR	Responder	
David Crary, Jr.	NPS	Observer	
Patrick Grady	Mass. Enivronmental Police	Observer	
Clint Austin	Shellfisherman	Responder	
Barbara Austin	Shellfisherman	Responder	
Brian Davis	Truro Fire Dept.	Responder	
Paul Brazil	Truro Fire Dept.	Responder	
Jim Willis	Wellfleet Fire Dept.	Observer	
Sean O'Brien	BCREPC	Observer	
Amy Wallace	BCREPC	Observer	
Jason Natti	USCG	Observer	
Nick Morgan	USCG	Observer	
Jake Guillamette	USCG	Observer	
Elise DeCola	Nuka Research	Facilitator	
Caleb Queen	Nuka Research	Observer	
Sanne Schneider	Nuka Research	Observer	
Barry	Press	Observer	

Appendix F

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GRP Deployment Te	est Fvalua	tion Form			
GRP # CI-05 Wellfleet Harbor			10		
Instructions to Evaluators: Complete this form based on your observations of the GRP testing today. Please e-mail to sanne@nukaresearch.com or fax to 240-368-7467 or mail to Nuka Research, PO Box 1672 Plymouth, MA 02362.					
Evaluator Name: Evaluator Organization:					
What was your role in exercise? (response)	onder, obsei	rver, facilitato	or, etc.)		
What was your level of spill response experience prior to this exercise?					
Please check a box to respond to the fo	ollowing.	YES	NO		
 I feel more prepared to deploy GRPs than I did prior to this exercise. I have a better understanding of spiral 	s now				
response tactics than I did prior to this					
3. I would participate in future GRP de at other sites.					
4. The objectives were clearly explained deployment test met the objectives.	ed and the				
5. The exercise was conducted safely.					
Other comments or suggestions about	exercise des	sign & facilita	tion?		

GRP Deployment Test Evaluation Form GRP # CI-05 Wellfleet Harbor Test date: 5/26/10 **Evaluation of Tactics - Diversion Boom Array** Were responders able to effectively deploy DV-01alt using 1,000 ft boom (as directed at exercise in-briefing)? Describe any challenges or setbacks you encountered or observed in setting the boom. Based on your experience today, would you feel comfortable setting a similar boom array during an actual incident? Please evaluate how well Wellfleet Harbor worked for deploying and demobilizing boom from the trailer for this deployment: _ Ideal staging area for boom for this tactic. __ Sufficient as a staging area for boom for this tactic. Not sufficient as a staging area for boom for this tactic. Elaborate:



GRP Deployment Test Ev	aluation Form
GRP # CI-05 Wellfleet Harbor	Test date: 5/26/10
Evaluation of Deploym	ent Overall
Was the equipment available (boom, anchors accomplish the deployment? If not, describe.	
Were there enough vessels to deploy the book power and maneuverability?	m? Did vessels have adequate
Did responders appear to have sufficient equito deploy the boom? If no, explain any deficit	
Did the GRP document (map diagram and tab how and where to deploy the boom? If not, p suggest improvements.	



GRP Deployment Test Evaluation Form				
GRP # CI-05 Wellfleet Harbor Test date: 5/26/10				
Evaluation of ICS Component				
What was your level of ICS training/experience prior to this exercise?				
Did the inclusion of the Demotable County IMT and the of Incident Action Disc				
Did the inclusion of the Barnstable County IMT and use of Incident Action Plan (IAP) enhance the exercise?				
Did the emphasis on ICS/IAP help you to better understand how the agencies & organizations would come together in a spill?				
Would you feel comfortable working in an ICS environment (forms, etc.) based on your experience during the exercise?				