

**DRAFT**

# ***Aleutian Islands Emergency Towing System (ETS) ADEC Exercise Report***

Report to  
Alaska Department of Environmental Conservation

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September 21, 2007

**Prepared by:**  
Nuka Research & Planning Group, LLC.





P.O. Box 175  
Seldovia, Alaska 99663  
tel 907.234.7821  
fax 240.368.7467  
[contact@nukaresearch.com](mailto:contact@nukaresearch.com)

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# Aleutian Islands Emergency Towing System (ETS) ADEC Exercise Report

Report  
September 21, 2007

## Introduction

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Following the near grounding of the *Salica Frigo* on March 9, 2007, the Mayor of Unalaska convened a Disabled Vessel Workgroup to discuss issues and proactive solutions to aid distressed vessels, decrease response time and possibly prevent a disabled vessel from grounding. This discussion prompted the formation of the Emergency Towing Systems (ETS) workgroup, whose main objective is to develop an emergency towing capability for disabled vessels in the Aleutians Subarea by utilizing locally available tugboats, trained personnel and emergency towing systems.

The workgroup consists of representatives from local, state and federal governmental agencies as well as private industry professionals (see Appendix A for complete workgroup list)

- Alaska Department of Environmental Conservation, Spill Prevention and Response
- City of Unalaska
- Alaska Marine Pilots Association, LLC
- Tug Gyrfalcon - Pacific Coast Maritime, Inc./Harley Marine
- Tug James Dunlap - Dunlap Towing
- U.S. Coast Guard, Unalaska Marine Safety Detachment
- U.S. Coast Guard, Sector Anchorage
- U.S. Coast Guard, Air Station Kodiak
- Horizon-Lines, Inc.
- Samson Tug and Barge
- Alaska Maritime Agencies
- Nuka Research and Planning Group, LLC

Because of size variations in Aleutians vessel traffic, the City of Unalaska purchased an ETS suitable for vessels *up to* 50,000 DWT and ADEC purchased an ETS for vessels *greater than* 50,000 DWT. The ETS consists of a plasma towline capable of towing a distressed vessel, a messenger line to assist in deploying the towline, a line-launcher, marker buoys, helicopter slings/pendants and chaffing gear. This equipment can be used in different configurations to allow for ETS deployment from the stern of a tugboat or by helicopter airdrop.

The ETS workgroup began meeting via teleconference and committed to conducting a deployment exercise in Unalaska. The deployment exercise would not only serve as hands-on training, but would also provide video footage, still photography and step-by-step deployment documentation in order to facilitate the production of a procedures manual and training DVD.

Prior to the scheduled July 30 - August 1 exercise dates, the ETS workgroup teleconferenced several times to plan the deployment exercise. ADEC contracted Nuka Research and Planning Group, LLC to facilitate workgroup meetings and information distribution, provide deployment exercise scheduling and logistics, and produce the procedures manual and training DVD.

## Deployment Exercise

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The ETS deployment exercise took place in Unalaska from July 30 to August 1, 2007 and was divided into seven stages: Stages I – V (July 30); Stages VI and VII (July 31); and an exercise debrief scheduled (August 1). The complete schedule of events is in Appendix B.

### *Film Crew Briefing*

On July 30 at 0930 hours, stage coordinators and representatives from UCB, Gyrfalcon, AMP, USCG, Ports, ADEC and Nuka Research convened for a film crew briefing at the City of Unalaska Community Center. Stage coordinators discussed each stage step-by-step as attendees outlined specific shots and safety considerations for the camera operators. UCB reported on what ETS procedures had been filmed/photographed and based on this information, the attendees generated a separate list of shots to capture after completion of the deployment exercise.

In attendance were:

Lauren Adams, UCB	Lt. Benjamin Duarte, USCG MSD
Kelly O'Brien, UCB	John Days, Harbormaster
John Brown, ADEC	Alvin Osterback, Ports Director
Leslie Pearson, ADEC	Lt. Josh Bauman, USCG Pilot H-65
Captain Steve Moreno, AMP	Lt. Jason Smith, USCG Co-Pilot H-65
Captain Carter Whalen, AMP	Tim Robertson, Nuka Research
Captain Chris Starkenburg, Tug Gyrfalcon	Amy Gilson, Nuka Research

### *Participants' Briefing*

The next event on July 30 was the participants' briefing, scheduled for 1300 at the DOT Hangar. Tim Robertson of Nuka Research led the discussion, covering the attendee introductions, July 31 – August 1 schedule, final exercise plan review, stage operations, deployment exercise critiques and main objectives for the exercise (see Appendix C for complete ETS participants and vessel list).

Lt. Benjamin Duarte, USCG MSD Unalaska, outlined the safety plan for the entire exercise, emphasizing safety as an important part of each participant's responsibilities, and that precise communication is a key factor in the 3-day event.

### *Stage I*

Captain Steve Moreno, Alaska Marine Pilots Association, LLC led Stage I - System Components and Packing. The ETS was faked out on the tarmac with all components visible to exercise participants. Captain Moreno walked through each component's use and systematic attachment within the system. By the end, each component was tagged with the common nomenclature established for the entire ETS. Video and still photography were taken during Stage I with emphasis

on procedural sections. Directed by Steve Moreno and the Gyr Falcon crew, participants re-packaged the ETS for Stage V helicopter deployment.

**STAGE I ACTION ITEMS:**

- Purchase a small strobe light for the Thimble Buoy – City/ADEC
- Connect the shackle pin to the shackle with a wire or cord – John Days, Ports
- Encase the Pick-up Buoy in foam – John Days, Ports
- Add reflective tape to ETS Tote Thimble Buoy, and Pick-up Buoy – John Days, Ports
- Install padded eyes to ETS Tote for lashing onboard the tug – John Days, Ports
- Purchase ratchet straps for ETS tie-down on board tugs – City/ADEC

System maintenance and inspection were touched on in Stage II – City of Unalaska Harbor/Airport Operations.



**Photograph 1. ETS Components.**



**Photograph 2. Captain Moreno establishing ETS nomenclature.**



**Photograph 3. Tug crew packing ETS for deployment.**



**Photograph 4. Tug crew packing ETS for deployment.**



**Photograph 5. ETS packing complete.**



**Photograph 6. Tug crew closing Tote; ready for helicopter deployment.**

## **Stage II**

Alvin Osterback, Ports Director, led the participants through ETS mobilization for both rescue tug and helicopter deployment. Mr. Osterback reviewed established security procedures for the ETS storage container and line gun/satellite phone storage. Safety considerations were established as being the same as those for all Ports operations. It was suggested that ETS Ports training take place prior to the winter storm season and again after USCG MSD's annual personnel change over.

### **STAGE II ACTION ITEMS:**

- Establish decontamination, maintenance and inspection procedures for ETS after deployment – John Days, Ports
- Develop more specific detail for continuous training and operations – John Days, Ports

## **Stage III**

Lt. Josh Bauman led Stage III's review of ETS mobilization from helicopter to ship, including an initial outline of safety considerations and demonstration of pendant hook-up to the helicopter. He also discussed shipboard operations and safety during this time. The ETS was mobilized from the DOT Hangar to the helicopter pad, and the pendant was connected in preparation for deployment to a ship. The H-65 crew readied the aircraft for operations and hovered over the ETS while the ground crew connected the pendant to hook. The helicopter then lifted the ETS from the storage tote without incident, and proceeded to fly in a holding pattern while participants moved to the *Baltic Prosperity* for observation. Once cameras and observers were in position, the helicopter successfully lowered the ETS on to the bow of the *Baltic Prosperity*.

### **STAGE III ACTION ITEMS:**

- Add the following to the procedures manual – Tim Robertson, Nuka Research
  - No ship's personnel on bow of vessel for assistance during helicopter operations
  - Cutters and Air Station Kodiak have pendants for helicopter loads
  - Helicopter ground considerations, wet-down tarmac prior to take off to control dust and close road prior to take off
- Purchase two different sized pendants for ETS use in Unalaska or have USCG station a set of pendants and a release hook in Unalaska. – City/ADEC



**Photograph 7. Lt. Bauman demonstrates helicopter pendant.**



**Photograph 8. AET1 Williams attaches ETS to helicopter.**



**Photograph 9. Successful ETS lift-off by H-65.**



**Photograph 10. H-65 maneuvers to deliver ETS to Baltic Prosperity.**



**Photograph 11. ETS package on board Baltic Prosperity.**

#### **Stage IV**

After the successful helicopter deployment, participants regrouped around 1700 at the UMC – City Dock for Stage IV, Line-gun operations led by Harbormaster John Days. Stage IV established step-by-step Line-gun operations beginning with safety considerations for handling/launching and use of compressed air. Harbor Officers introduced the air cylinders, projectiles and process of recharging with compressed air tanks. Line-gun procedures and component introduction occurred during the loading and launching demonstration. Mr. Days also addressed storage, inspection and maintenance issues associated with Line-gun use and upkeep.

#### **STAGE IV ACTION ITEMS:**

- Purchase additional equipment so six sets of air cylinders and projectiles are charged and ready to deploy with ETS – City/ADEC



**Photograph 12. ResQMax Line-gun.**



**Photograph 13. Loaded Line-gun.**



**Photograph 14. Gryfalcon Crew Member Cagle fires Line-gun.**



**Photograph 15. Re-chargeable air cylinder.**

**Photograph 16. Harbor Officer VonMarenholtz demonstrates connecting air cylinder for re-charge.**



### **Stage V**

Commander Steve Pearson, Captain of the Port USCG Sector Anchorage, led the discussion on notification, activation, command and control during Stage V in evening session held at City Hall Council Chambers. Commander Pearson spoke of the qualified local professionals stationed in Unalaska as being first responders to an incident and their roles in command and control. The Harbormaster would be the primary contact for activation. Notification procedures would follow the Severe Winter Storm Plan notification, activation, command and control template.

Stage V concluded all ETS activity for July 30. Participants regrouped on July 31 at 0630 in the Shishaldin Room, Grand Aleutian Hotel for a breakfast buffet and operations briefing.

### **Operations Briefing**

The operations briefing began at 0730 and covered safety considerations, communications and logistics for the day's schedule. Vessel assignments and boarding locations were determined and announced at 0900, after which participants picked up lunches and dispersed to assigned locations for the day.

### **Stage VI**

At approximately 1100, all vessels were located roughly 1 mile north of Ulakta Head and were ready for Stage VI tug-to-ship deployment. Safety considerations and procedures had been established and discussed in the previous stages and briefings. After the tug *Gyr Falcon* had the ETS on board and the towline secured to the tow-wire, the tug moved into position to launch the Line-gun over the front third of the *Baltic Prosperity*.

The launch was successful and the crew retrieved the messenger line and moved it to the bow to thread through the bullnose. From the bullnose, the crew secured the messenger line to the capstan and pulled the remaining line aboard until reaching the attached Thimble buoy and Ship's end (ship's eye). After placing the Ship's eye on the *Baltic's* bitt, the *Gyr Falcon* conducted a short tow to simulate an actual tow event.

After the tow, the tug released the towline from its tow-wire and the *Baltic* crew pulled the ETS on board and faked out the line for Stage VII, ship-to-tug deployment.



**Photograph 17. *Gyr Falcon* prepped for ETS deployment; Line-gun fired over *Baltic* midship.**



**Photograph 18. *Baltic* crew retrieves Messenger Line.**



**Photograph 19. Messenger Line moved forward to bow.**



**Photograph 20. Messenger Line threaded through bullnose; Baltic crew ready to pull in Tow Line.**



**Photograph 21. Tow Line secured to Baltic; Ship's Eye looped over bitt.**



**Photograph 22. Baltic under tow.**

### **Stage VII**

Once the ETS was made ready for Stage VII, ship-to-tug deployment, and the tug *James Dunlap* was in position to retrieve the messenger line and Pick-up Buoy, the *Baltic* crew let out the Messenger line/Pick-up Buoy and waited for tug direction.

The *James Dunlap* retrieved the Messenger line until the tow-end of the plasma line came aboard. The tug crew attached it to their tow wire and established a short tow. After a successful tow, the *Baltic* released the ETS for the *James* to retrieve and carry back to port for repacking and storage. This concluded deployment exercise activities for July 31.



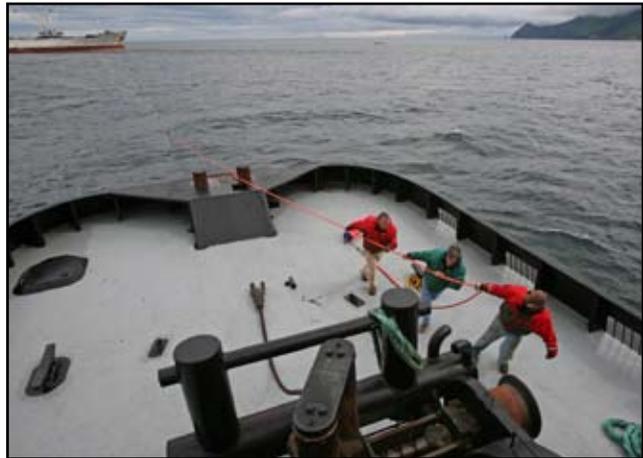
**Photograph 23. ETS faked out on Baltic deck; ready for deployment.**



**Photograph 24. Simulated Pick-up Buoy deployed over rail.**



**Photograph 25. James Dunlap crew retrieves Pick-up Buoy.**



**Photograph 26. Messenger Line hauled on board; made ready to haul in Tow Line.**



**Photograph 27. James crew attaches tow wire to Tow Line (Tow Eye)**



**Photograph 28. Baltic under tow.**

## Debrief

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The ETS Deployment Exercise wrapped up with an exercise debrief held at Council Chambers on August 1 at 0900. Tim Robertson led the debrief, covering procedure/training notes, participant comments/suggestions for each stage of the exercise, and participant check out and return of exercise critique forms.

### ***Procedural Action Items:***

- Change transition cloth to bio-friendly material – John Days, Ports
- Consider packing Pick-up Buoy in foam – John Days, Ports
- Mark Storage Tote and Thimble Buoy with reflective tape – John Days, Ports
- Specific ETS size classification stenciling and on board (tug) tote positioning the outside of each Storage Tote – John Days, Ports
- Include system specifications with deployment instructions – Tim Robertson, Nuka Research
- Identify which docks would be appropriate and most preferable for ETS mobilization from shore-to-tug – Tug Captains and Crews
- Include above information in the procedurals manual – Tim Robertson, Nuka Research
- Emphasize the need for more than one person to handle the messenger line while passing it through the bullnose, prior to bringing in the towline – Tim Robertson, Nuka Research
- Add a procedural element addressing periodic chaffing inspection during a tow of long distance or timeframe – Tim Robertson, Nuka Research
- Add a procedural element regarding bending the towline to the anchor chain for a more secure attachment point during severe weather conditions – Tim Robertson, Nuka Research
- Document process of activating lighted Pick-Up buoy with still photography, send photos to Nuka Research – Ports/UCB
- Add above information to procedures manual – Tim Robertson, Nuka Research
- Discuss what instructions and/or communications equipment should be sent to disabled vessel during ETS deployment – ETS Workgroup
- Devise a plan for delivery for above items – ETS Workgroup
- Add above information to procedures manual – Tim Robertson, Nuka Research

### ***Action Items/Equipment Purchases:***

- Purchase additional Pick-Up and Thimble buoys – City/ADEC
- Purchase strobe and sea anchor for Thimble Buoy – City/ADEC
- Purchase a separate bag to store with ETS, containing the ratcheting system for tug lash down (to include dedicated safety shackle for each tug – City/ADEC)

- Purchase grappling hook and store as part of the line gun equipment – City/ADEC
- Purchase two helicopter pendants to be stored in with ETS – City/ADEC

The critique forms returned offered suggestions to all stages of the exercise.

Stage I comments/suggestions focused mainly on establishing a more concise maintenance, training and inspection schedule that would be available to any tug, Ports, AMP or USCG personnel stationed in Unalaska.

Most reviews of Stage II agreed these objectives were met during the exercise with the exception of the need for more detailed mobilization procedures and a certified weight and security band for ETS storage.

Critiques of Stage III confirmed the objectives were covered and safety considerations were noted as the most important procedures for Stage III.

Reviews of Stage IV Line-gun operation agreed these objectives were met and included a comment regarding addition of maintenance procedures for the air cylinders.

Stage V activation, notification, command and control objectives were critiqued as needing a specific process for ETS, which should mimic those processes in place for the Severe Winter Storm Plan.

All reviewers agreed Stage VI objectives were met during the tug-to-ship deployment, with comments made to include a procedure addressing tug crew managing the messenger line during deployment to ship.

Stage VII, ship-to-tug critiques/suggestions centered on messenger line retrieval from the water. Emphasis was put on the need to let the messenger line drift way from the vessel, but to retrieve it prior to paying out the towline. Positioning the line to drift down wind from the vessel where the tug can maneuver into a safe position for retrieval may facilitate this.

Further recommendations and suggestions made by the reviewers were previously covered within each stage critique with the following exceptions: add a rescue vessel checklist to ensure all tug-to-ship components are retrieved by Ports' personnel during mobilization and upgrade communications to include radio ear pieces for deck operations.

# Appendices

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**Appendix A) Aleutian Islands Emergency Towing Systems - Workgroup Contact List  
07.23.07 Update**

Lauren	Adams	UCB, General Manager	<a href="mailto:lauren@kial.org">lauren@kial.org</a>	907.581.1888
David	Alvestad	Dunlap Towing, Captain James Dunlap	<a href="mailto:otwola@gmail.com">otwola@gmail.com</a>	907.581.2733 or 907.359.2744
Mike	Anthony	Alaska Marine Pilots	<a href="mailto:ampilots@arctic.net">ampilots@arctic.net</a>	
Craig	Breitung, CDR	USCG, Air Station Kodiak	<a href="mailto:Craig.s.breitung@uscg.mil">Craig.s.breitung@uscg.mil</a>	907.487.5179
Josh	Bauman, LT	USCG, Air Station Kodiak	<a href="mailto:Joshua.D.Bauman@uscg.mil">Joshua.D.Bauman@uscg.mil</a>	
John	Brown	ADEC	<a href="mailto:John.brown@alaska.gov">John.brown@alaska.gov</a>	907.269.7688
Rob	Campbell	Dunlap Towing, Captain James Dunlap		907.359.2744
Joe	Carroll, CDR	USCG, Air Station Kodiak		907.487.5179
Clayton	Christy	Alaska Marine Pilots	<a href="mailto:ampilots@arctic.net">ampilots@arctic.net</a>	
Gregory	Crettol, LCDR	USCG, Unalaska	<a href="mailto:gregory.l.crettol@uscg.mil">gregory.l.crettol@uscg.mil</a>	907.581.3466
John	Day	Port of Dutch Harbor, Harbor Master	<a href="mailto:jdays@ci.unalaska.ak.us">jdays@ci.unalaska.ak.us</a>	907.581.1254
Mike	Delury, LT	USCG, Anchorage	<a href="mailto:Michael.E.Delury@uscg.mil">Michael.E.Delury@uscg.mil</a>	907.271.6700
Steve	Devitt	Dunlap Towing	<a href="mailto:ulakta@yahoo.com">ulakta@yahoo.com</a>	907.581.2733
Ben	Duarte, LT	USCG, Unalaska	<a href="mailto:Benjamin.J.Duarte@uscg.mil">Benjamin.J.Duarte@uscg.mil</a>	907.581.3466
Gary	Folley	ADEC	<a href="mailto:Gary.folley@alaska.gov">Gary.folley@alaska.gov</a>	907.262.5210 x234
Amy	Gilson	Nuka Research and Planning Group	<a href="mailto:amy@nukaresearch.com">amy@nukaresearch.com</a>	907.234.7821
Rod	George	Dunlap Towing, Captain Saratoga		907.581.2733
Pete	Gray	Alaska Marine Pilots	<a href="mailto:ampilots@arctic.net">ampilots@arctic.net</a>	
Chris	Hladick	Unalaska, City Manager	<a href="mailto:chladick@ci.unalaska.ak.us">chladick@ci.unalaska.ak.us</a>	907.581.1251
Chris	Iszler	Horizon Lines, PMC Gyrfalcon (tug 581.1664 or 359.7800)	<a href="mailto:gfalcon@akwisp.com">gfalcon@akwisp.com</a>	907.581.7900
Eric 'Vern'	Johnson	Alaska Maritime Agencies (cell 359.7902)	<a href="mailto:ops@dch.alaskamaritime.com">ops@dch.alaskamaritime.com</a>	907.581.1467
John	Kotula	ADEC	<a href="mailto:john.kotula@alaska.gov">john.kotula@alaska.gov</a>	907.835.4698
Mike	Lynch	Horizon Lines, Terminal Manager	<a href="mailto:mlynch@horizon-lines.com">mlynch@horizon-lines.com</a>	907.581.7900
Shirley	Marquardt	City of Unalaska, Mayor	<a href="mailto:mayor@ci.unalaska.ak.us">mayor@ci.unalaska.ak.us</a>	907.581.1251
Peggy	McLaughlin	Horizon Lines, Operations Mngr	<a href="mailto:pmclaughlin@horizon-lines.com">pmclaughlin@horizon-lines.com</a>	907.581.7900

Steve	Moreno	Alaska Marine Pilots' Association	<a href="mailto:saltydogllc@comcast.net">saltydogllc@comcast.net</a>	907.581.1240
Kelly	O'Brien	UCB, Television Operations	<a href="mailto:kelly@kial.org">kelly@kial.org</a>	907.581.1888
Alvin	Osterback	Dutch Harbor-Port Director	<a href="mailto:aosterback@ci.unalaska.ak.us">aosterback@ci.unalaska.ak.us</a>	907.581.1254
Ed	Page	Alaska Marine Exchange	<a href="mailto:edpage@mxak.org">edpage@mxak.org</a>	907.463.5078
Leslie	Pearson	ADEC	<a href="mailto:Leslie.pearson@alaska.gov">Leslie.pearson@alaska.gov</a>	907.269.7543
Steven	Pearson, CDR	USCG, Anchorage (direct 271.6723)	<a href="mailto:Steven.T.Pearson@uscg.mil">Steven.T.Pearson@uscg.mil</a>	907.271.6700
Tim	Robertson	Nuka Research and Planning Group	<a href="mailto:timrobertson@nukaresearch.com">timrobertson@nukaresearch.com</a>	907.234.7821
Chris	Starkenburg	Horizon Lines, PCM Gyrfalcon (tug 581.1664 or 359.7800)	<a href="mailto:ccstark@aol.com">ccstark@aol.com</a>	
Wally	Stilson	Samsom Tug and Barge	<a href="mailto:walterstilson@samsontug.com">walterstilson@samsontug.com</a>	907.747.8559
Joe	Stuart	Dunlap Towing, Mate/Captain James Dulap		907.581.2733
Jim	Weimer	Pacific Coast Maritime, Inc	<a href="mailto:jweimer@harleymarine.com">jweimer@harleymarine.com</a>	206.920.2367

## **Appendix B) Aleutian Islands Emergency Towing Systems – Deployment Exercise Schedule of Events**

<b>Time</b>	<b>Event</b>	<b>Location</b>	<b>Stage Coordinator</b>
<b>Monday July 30, 2007</b>			
	Arrive Dutch Harbor and check-in with Amy Gilson	City Council Chambers	Amy Gilson, Nuka Research
0930 hr	Film crew briefing	Community Center	Kelly O'Brien, UCB
1300 hr	Participant briefing	DOT Hanger	Tim Robertson, Nuka Research
1330 hr	Stage I: System components and packing	DOT Hanger	Captain Steve Moreno, AMPA
1500 hr	Stage II: City of Unalaska harbor/airports operations	DOT Hanger	Alvin Osterback, City of Unalaska
1600 hr	Stage III: Helicopter mobilization to ship	Airport to Dutch Harbor	LT Josh Bauman, USCG Air Station Kodiak
1700 hr	Stage IV: Line-gun operations	UMC – City Dock	John Days, City of Unalaska
1930 hr	Stage V: Notification, activation, command and control	City Council Chambers	CDR Steve Pearson, USCG Sector Anchorage
<b>Tuesday July 31, 2007</b>			
0630 hr	Breakfast Buffet - Hosted by Mayor Marquardt	Grand Aleutian Hotel – Shishaldin Room	
0730 hr	Ops Briefing	Grand Aleutian Hotel – Shishaldin Room	LT Ben Duarte, USCG MSD Unalaska
1000 hr	Transportation to vessels and exercise location	Participants disperse to their assigned vessels and move to their assigned locations	
	Brown bag lunch - hosted by Horizon Lines	Aboard vessels, bag lunches to be picked-up at breakfast	
1100 hr	Stage VI: Tug to ship deployment	North of Ulakta Head	Captain Chris Starkenburg - Gyrfalcon Captain Steve Moreno, AMPA
1100 hr	Stage VII: Ship to tug deployment	North of Ulakta Head	Captain Steve Moreno, AMPA Captain Rob Campbell - James Dunlap
1930 hr	Participants Dinner - Hosted by the City of Unalaska	Grand Aleutian Hotel – Shishaldin Room	
<b>Wednesday August 1, 2007</b>			
0900 hr	De-brief	City Council Chambers	Tim Robertson, Nuka Research
	Return critique, check-out of exercise, return to duty	City Council Chambers	Amy Gilson, Nuka Research

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**Appendix C) Aleutian Islands Emergency Towing Systems – Deployment Exercise Participants and Vessels List**

<b>Agency</b>	<b>Title</b>	<b>First</b>	<b>Participant Role</b>
Alaska Marine Pilots, LLC	Alaska Marine Pilot	Captain Steve Moreno	Stage VI Coordinator
Alaska Marine Pilots, LLC	Alaska Marine Pilot	Captain Carter Whalen	AMP on vessel
Alaska Marine Pilots, LLC	Alaska Marine Pilot	Captain David Arzt	Observer
Horizon Lines	General Manager	Jim Weimer	Observer
Horizon Lines	Port Captain	Scott Manley	Observer
Horizon Lines	Terminal Manager	Mike Lynch	Observer
Tug Gyrfalcon	Captain	Chris Starkenburg	Stage VII Coordinator - Captain
Tug Gyrfalcon	Mate	Travis McGrath	Tug Crew
Tug Gyrfalcon	Chief Engineer	Mark Hurst	Tug Engineer
Tug Gyrfalcon	Able Seamen	Paul Cagle	Tug Crew
Tug Gyrfalcon	Cook/Deckhand	Brian Radcliff	Tug Crew
Tug Gyrfalcon	Deckhand/Crane Op	Troy Lynch	Tug Crane Ops
Tug Samson Mariner	Captain	Wally Stilson	Captain VIP Vessel
Tug James Dunlap	Captain	Rob Campbell	Stage VII Coordinator - Captian
PRS	Translator	Natalia Razumnoff	Translator
UCB	TV Ops	Kelly O'Brien	UCB main contact
UCB	Camera Op	Lauren Adams	Camera Crew
UCB	Camera Op	Pipa Esclante	Camera Crew
UCB	Camera Op	Daniel Weirich	Camera Crew
Nuka Research	Exercise Planner	Tim Robertson	Exercise Coordinator
Nuka Research	Logistics Coordinator	Amy Gilson	Logistics and Support
City of Unalaska	Mayor	Shirley Marquardt	Director of Exercise
Ports Department	Harbor Master	John Days	Stage I, III Coordinator
Ports Department	Port Director	Alvin Osterback	Stage II Coordinator
Ports Department	Port Employee	Steve VonMarenholtz	Safety Vessel Crew
Ports Department	Port Employee	Chuck Harvey	Safety Vessel Crew
City of Unalaska	EMS	Mike Sheffield	Emergency Medical Technician
ADEC	Environmental Program Specialist IV	John Brown	Observer
ADEC	Program Manager	Leslie Pearson	Observer
ADEC	Environmental Program Specialist IV	John Kotula	Observer
USCG, MSD	Lieutenant	Ben Duarte	Safety Officer
USCG, MSD	CWO2	Wes Pannett	Safety Officer
USCG, MSD	MST1	Tyler Behnke	Safety Officer
USCG, MSD	MST1	Brian Clark	Safety Officer
USCG, MSD	BM2	Mike Underhal	Safety Officer
USCG, MSD	MST3	Anne Hall	Safety Officer
USCG, Sector Anchorage	Commander	Steve Pearson	Stage IV Coordinator
USCG, Sector Anchorage	Captain of the Port	Mark DeViries	Captain of the Port
USCG, District Juneau	Commander	James Robertson	Observer
AMA	Vessel Agent	Vern Johnson	Communications Coordinator
USCG, Air Station Kodiak	Lieutenant	Josh Bauman	H-65 Pilot
USCG, Air Station Kodiak	Lieutenant	Jason Smith	H-65 Pilot
USCG, Air Station Kodiak	AET1	Liam Williams	H-65 Crew

<b>Agency</b>	<b>Title</b>	<b>First</b>	<b>Participant Role</b>
USCG, Air Station Kodiak	AMT2	Jeff Kortis	H-65 Crew
VIP	Unalaska City Council	Juanita Lewis	Observer
VIP	Unalaska City Council	Roger Rowland	Observer
VIP	Unalaska City Council	Katherine McGlashin	Observer
VIP	Unalaska City Council	Kris Flannagan	Observer
VIP	Unalaska City Manager	Chris Hladick	Observer
VIP	Senator Stevens Admin	Mark Robbins	Observer
UCB	Press	Charles Homans	Observer/Reporter

<b>Vessel</b>	<b>Organization</b>	<b>Designation</b>	<b>Contact</b>
Tramper Baltic Prosperity	Freight Logistic Services	Distressed Vessel	Captain Steve Moreno
Tug Gyrfalcon	Pacific Coast Maritime/ Harley Marine and Horizon Lines	Rescue Tug	Captain Chris Starkenburg
Tug James Dunlap	Dunlap Towing	Rescue Tug	Captain Rob Campbell
Tug Samson Mariner	Samson Tug and Barge	Observer/VIP Vessel	Captain Walter Stilson
Port Vessel	City of Unalaska, Ports Dept.	Safety	Ports Director Alvin Osterback



