

**Agency: Commerce, Community and Economic Development**

**Grants to Named Recipients (AS 37.05.316)**

**Grant Recipient: Alaska Fire Chiefs Association, Inc.**

**Federal Tax ID: 92-0098649**

**Project Title:**

# Alaska Fire Chiefs Association, Inc. - Marine Shipboard Firefighting Training for Land-Based Firefighters

**State Funding Requested: \$ 50,000**

**House District: Juneau Areawide (3-4)**

One-Time Need

**Brief Project Description:**

Funding will help provide a four-day Marine Shipboard Firefighting Training for land-based firefighters throughout Southeast Alaska. This is vital training to provide emergency response capacity for fires on cruise ships and other vessels. Training is scheduled to be held in September 2008 in Juneau, and will include a hands-on training component specifically designed for fighting shipboard fires.

**Funding Plan:**

**Total Cost of Project: \$175,000**

|       | <u>Funding Secured</u> |           | <u>Other Pending Requests</u> |           | <u>Anticipated Future Need</u> |           |
|-------|------------------------|-----------|-------------------------------|-----------|--------------------------------|-----------|
|       | <i>Amount</i>          | <i>FY</i> | <i>Amount</i>                 | <i>FY</i> | <i>Amount</i>                  | <i>FY</i> |
| Other | \$125,000              | FY09      |                               |           |                                |           |
| Total | \$125,000              |           |                               |           |                                |           |

*Explanation of Other Funds:*

*Remaining funds will be provided from member tuition for this specialized training.*

**Detailed Project Description and Justification:**

Land-based fire fighting departments throughout Southeast Alaska are currently not trained for the specialized response necessary to combat shipboard fires on cruise ships and other vessels, as well as in their local ports and harbors. Local fire departments in Alaska's coastal cities would be under tremendous pressure in the event of a major cruise ship fire, and lack of proper training imperils vessel passengers, crew, and firefighters. This vital training will build the needed emergency response capabilities.

The Alaska Fire Chiefs Association and Alaska State Firefighters Association will hold this joint specialized multi-day training and exercise entitled "Marine Shipboard Firefighting for Land Based Departments/Command and Control" in conjunction with their September 2008 fall conference in Juneau. The training and exercise include bringing subject matter expert instructors to Juneau. A detailed schedule is attached as part of the project backup. Training will include a hands-on exercise on fighting shipboard fires.

**Project Timeline:**

This training will be conducted in September 2008.

**Entity Responsible for the Ongoing Operation and Maintenance of this Project:**

n/a

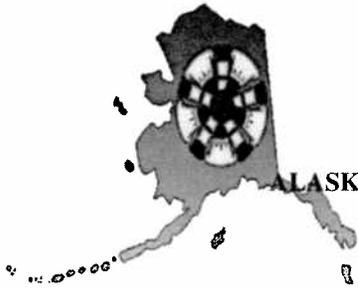
**Grant Recipient Contact Information:**

Contact Name: Eric Mohrmann  
Phone Number: 586-0261  
Address: 820 Glacier Ave. Juneau 99801  
Email: eric\_mohrmann@ci.juneau.ak.us

Has this project been through a public review process at the local level and is it a community priority?  Yes  No

*For use by Co-chair Staff Only:*

4:57 PM 4/29/2008



ALASKA FIRE CHIEFS ASSOCIATION



2008 Conference Committee  
Fire Chief Eric Mohrmann / Lieutenant Sean Huntley , Co-Chairs  
820 Glacier Avenue  
Juneau, Alaska. 99801  
(907) 586-0261 (907) 586-8323 (fax)  
eric\_mohrmann@ci.juneau.ak.us  
EIN: 920118453

February 29, 2008

The Honorable Representative Andrea Doll  
State of Alaska  
House of Representatives  
State Capitol Room 426  
Juneau, Alaska. 99801-1182

Re: 2008 Joint Fire Chiefs/Firefighters Conference

Dear Representative Doll:

September 22 – 27, 2008, the Alaska Fire Chiefs Association and Alaska State Firefighters Association will be holding a joint training conference here in Juneau. This annual conference has not been in Juneau for 21 years.

We are planning on providing a wide variety of fire department related classes by world class instructors. A copy of the instruction schedule is attached for your review. You will note that the instruction schedule includes four and one half days of marine shipboard firefighting for land-based firefighters. This program is being taught by Gaylen Brevik, a recognized expert in the field and co-author of the premiere text on the subject published by International Fire Service Training Association (IFSTA). I have also attached a copy of his draft course outline for our conference.

Fire protection in the ports in the southeast is provided by several local fire departments many of whom have little training in the specific and critical aspects of shipboard firefighting or fighting fires associated with docks and harbors. However, as evidenced by past incidents, when a fire occurs on a cruise ship or any large vessel, these local departments are often asked to assist with fire control. In fact, the United States Coast Guard has been working for the last two years to develop a southeast marine fire response plan that includes the local fire departments as an important part of the response effort. We are encouraging the U.S.C/G/ personnel to attend the conference to network with the local fire departments representatives.

The cruise ship industry presents a potential for a significant emergency event in any southeast port. Local land based fire suppression forces are not trained in shipboard firefighting. Ships present very unique hazards and fires aboard must be combated with these specific issues in mind or disastrous results will

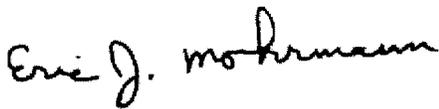
occur. This very valuable training will provide important instruction on these very important issues to those firefighters located in communities visited by the cruise ship industry or any community with a harbor or docks. Additionally, fighting fires in the shore-side facilities that support the cruise ship industry will also be addressed as a part of this instruction.

I am writing to you to ask for your support of this important instructional opportunity and of the communities affected by the cruise ship industry by seeking \$50,000.00 in grant funds to support this important conference. Our revenue for this conference is now based upon tuition paid by the firefighters to attend the conference, what vendor space we can sell and advertisement in our program by vendors. Needless to say, funding is tight especially when we are bringing in these world class instructors.

If received, the requested grant funding will allow us to fund the shipboard firefighting portion of the conference while keep our tuition prices reasonable so that more southeast firefighters can afford to attend.

Thank you for considering our request.

Sincerely,

A handwritten signature in black ink that reads "Eric J. Mohrmann". The signature is written in a cursive style with a large initial "E" and "M".

Eric Mohrmann  
Co-Chair

Cc: Senator Elton  
Representative Kertulla

enclosures

## ***Preparing for Marine Firefighting Incidents***

*The purpose of this learning forum is to provide technical information to assist land-based (shore-side) fire service personnel with the training, knowledge, technical information, and reference materials necessary for the safe and effective management of marine fire incidents.*

Monday September 22, 2008

8 Hours

*Basic*

***Preparing students to respond to unique challenges of the marine environment***

40 Students maximum

Terminal Objectives:

The student will be able to select, identify, and describe distinctive challenges linked to the local environment in responding to marine related fires.

*Note: If the program is presented on the M/V Kennicott instructors will describe the information in a lecture then actually have crewmembers show in detail the actual object or system. If the program is not presented on board we will conduct a field trip to a different vessel.*

The Marine Domain

Environmental Considerations

Weather

Tides and currents

Charts

Maritime facilities

Port terminal

Yards

Anchorage

Marinas

Fuel docks

Processing wharf (fish)

Ferry terminal (dock)

Bulk liquid storage

Launch ramps

Maritime Equipment

Gantry

Crane

Mooring systems (automatic)

Fire warp

Fork lifts

Boarding ladders, ramps, gangways (type that stay on dock)

# *Preparing for Marine Firefighting Incidents*

## Vessel Types

- Passenger
- Pleasure craft
- Float homes
- Fish processors
- Fishing boats
- Fuel Barges
- Petroleum carriers
- Container barges
- Ferries

## Vessel Construction

- Framing systems
- Bulkheads, decks, platforms, and levels
- Common construction materials

## Vessel Systems

- Power Generation
- Heating
- Air-conditioning
- Refrigeration
- Ventilation
- Fuel ballast transfer
- Mooring
- Steering
- Propulsion
- Communication
- Cargo handling

## Fire Detection systems

- Smoke
- Heat
- Flame
- Enunciator panel

## Fire Suppression systems

- Water Based
  - Fire Main
  - Automatic Sprinkler
  - High Pressure Water Mist
- Foam Suppression
- Inert Gas
- Carbon Dioxide
- Chemical Agent
- Clean Agent

# *Preparing for Marine Firefighting Incidents*

Tuesday September 23, 2008

8 hours

*Basic*

*Studying the past and preparing for the future*

40 students maximum

## Terminal Objectives

The student will be able to understand and determine the safety hazards of vessel fire response through lectures, table top exercise, and the study of plans, drawings, documents, and reviewing case histories.

### Case Histories

M/V Protector Alfa

Alaska Spirit

Universe Explorer

DeHarts Auke Bay arson fuel fire

### Vessel Hazards and Safety

Plans, Drawings, and Documents

Table top exercise—"Set up an ICS"

### Incident Response

Scenario

Step by step process, Table top exercise

Use the following list for objectives

### Vessel Fire Behavior [Vessels aren't buildings]

### Operational Fire Fighting Priorities

Rescue

Exposures

Confinement

Extinguishment

Ventilation

Overhaul/Salvage/Loss Control

Reentry Considerations

Post fire Actions

### Fire-Fighting Location

Multi-agency, National Incident Management System,

Accountability and Coordination

Dewatering Operations

Pollution Prevention and Control

Vessel Trim and Stability

Logistical Issues

# *Preparing for Marine Firefighting Incidents*

## Fire Fighting Strategies

- Establish Command
- Conduct Size-Up
- Establish Water Supplies
- Establish Boundaries
- Consider Fixed Fire Suppression Systems

## Fire Fighting Tactics

- Search and Rescue
- Victim Removal

## Fire Boundaries

## Fixed Fire Suppression Systems

## Fire Attack

- Advancing Fire Hoses
- Hot Zone Entry
- Methods of Approach
- Fire Stream Tactics

## Ventilation

- Vessel Ventilation Systems
- Natural Ventilation
- Positive-Pressure Ventilation
- Negative-Pressure and Hydraulic Ventilation

## Salvage and Overhaul

## Tactical Guidelines by Type of Space

- Accommodation-Space Fires
  - Small Fires
  - Medium Fires
  - Large Fires
- Galley Fires
  - Small Fires
  - Medium Fires
  - Large Fires
- Engine Room/Machinery Space Fires
  - Small Fires
  - Medium Fires
  - Large Fires

# *Preparing for Marine Firefighting Incidents*

## Tactical Guidelines by Type of Vessel

### Bulk and Break Bulk Vessel Fires

Small Fires

Medium and Large Fires

### Container Vessel Fires

Small Fires

Medium and Large Fires

### Ro/Ro, Car Carrier, and Ferry Fires

Small Fires

Medium Fires

Large Fires

### Tanker Fires

Small Fires

Medium Fires

Large Fires

### Passenger Vessel Fires

Shelter in Place is a new tactic

### Small Craft Fires

## Staging

### Role of the Fireboat

Use for suppressing small, medium and large fires

Use on marina, pier, or wharf fires

Other uses (as a tug, water supply, transport of ff or equipment)

## *Preparing for Marine Firefighting Incidents*

Wednesday September 24, 2008

4 hours

*Command and Control*

*The ship is burning, what is next?*

40 students maximum

The student will be able to identify through lecture and open discussion the organizational roles, responsibilities, and management of marine vessel and marine facility fires.

Organizational Roles, Responsibilities, and Resources

Legal Jurisdiction

National Incident Management System

Port Safety Strategies

The most current revision of the *Southeast Alaska Marine Firefighting Contingency Plan* will be presented by USCG.

A short open discussion will be conducted on the subject of the 2007 Edition of *NFPA 1005 Standards for Professional Qualifications for Marine Fire Fighting for Land-Based Fire Firefighters*.

# *Preparing for Marine Firefighting Incidents*

Thursday September 25, 2008

8 hours

*Harbor Fires*

***FIRE my harbor, now what?***

40 students maximum

## Terminal Objective

The student will be able to understanding the unique challenges and recognize fire response strategies and tactics for harbors through site visits.

*Note: A classroom session will be held first, we will do a site visit to Harris Harbor, and then set up a table top exercise back at the classroom.*

Marina and Facility Plans and classroom discussions

Marina and Facility Plans and site visits

Harris Harbor

CCF/R harbor fire pump

Examine the Skagway fire boat

Table top exercise will be based on the following objectives.

Incident Response

Vessel Fire Behavior [Vessels aren't buildings]

Operational Fire Fighting Priorities

Rescue

Exposures

Confinement

Extinguishment

Ventilation

Overhaul/Salvage/Loss Control

Reentry Considerations

Post fire Actions

Fire-Fighting Location

Multi-agency, National Incident Management System,

Accountability and Coordination

Dewatering Operations

Pollution Prevention and Control

Vessel Trim and Stability

Logistical Issues

# *Preparing for Marine Firefighting Incidents*

## Fire Fighting Strategies

- Establish Command
- Conduct Size-Up
- Establish Water Supplies
- Establish Boundaries
- Consider Fixed Fire Suppression Systems

## Fire Fighting Tactics

- Search and Rescue
- Victim Removal

## Fire Boundaries

## Fixed Fire Suppression Systems

## Fire Attack

- Advancing Fire Hoses
- Hot Zone Entry
- Methods of Approach
- Fire Stream Tactics

## Ventilation

- Vessel Ventilation Systems
- Natural Ventilation
- Positive-Pressure Ventilation
- Negative-Pressure and Hydraulic Ventilation

## Salvage and Overhaul

## Tactical Guidelines for Maritime Facilities

- Marina Fires
- Boatyard Fires
- Pier and Wharf Fires

## Fire ground Support Operations

Establish SCBA time control,

It might take more time in maritime fire fighting than land-based to get out.

Might need spare apparatus, rehab, and triage onboard

## Staging

## Role of the Fireboat

Use for suppressing small, medium and large fires

Use on marina, pier, or wharf fires

Other uses (as a tug, water supply, transport of ff or equipment)

## Environmental Impact of Fire Fighting Operations

## *Preparing for Marine Firefighting Incidents*

Friday September 26, 2008

8 hours

*Incident Response*

**Hands-On-Training, HOT**

40 students maximum

Command for the five scenarios will be on the bridge of the ship. Five scenarios will be conducted at the same time.

On board the M/V Kennicott or other Alaska Marine Highway vessel

Operational Fire Fighting Priorities

Fire Fighting Strategies

RECEO

Establish Command

Size up

Fire Fighting Tactics

Search and Rescue on board

Victim removal

Fire boundaries

Fire Attack

Ventilation

Fires on board by type of space

Galley Fires

Engine room fires

Crew quarters fire

Cabin fires

Car fire on board ferry