



# COOK INLET RISK ASSESSMENT

Project Status Report

For

Cook Inlet Regional Citizens' Advisory Council

March 25, 2011



*The Cook Inlet RCAC, U.S. Coast Guard and State of Alaska are conducting a risk assessment of maritime transportation in Cook Inlet, Alaska.*



- What is a Risk Assessment?
- Project Background
- Work Plan
- Outreach Efforts
- Questions?





# What is a Risk Assessment?

- What can go wrong?





# What is a Risk Assessment?

- How likely is it?





# What is a Risk Assessment?

- What are the impacts?





# What is a Risk Assessment?

- Can the risk be reduced or the impact mitigated?





# Project Background

- 1999 Safety of Navigation Forum – Homer
- 2000 Ports and Waterway Safety Assessment
- 2006 Sea Bulk Pride Grounding
- 2006 Cook Inlet Vessel Traffic Study
- 2007 Navigational Safety Forum – Anchorage
- 2008 Risk of Vessel Accidents and Spills
- 2009 Aleutian Island Risk Assessment



# Project Background

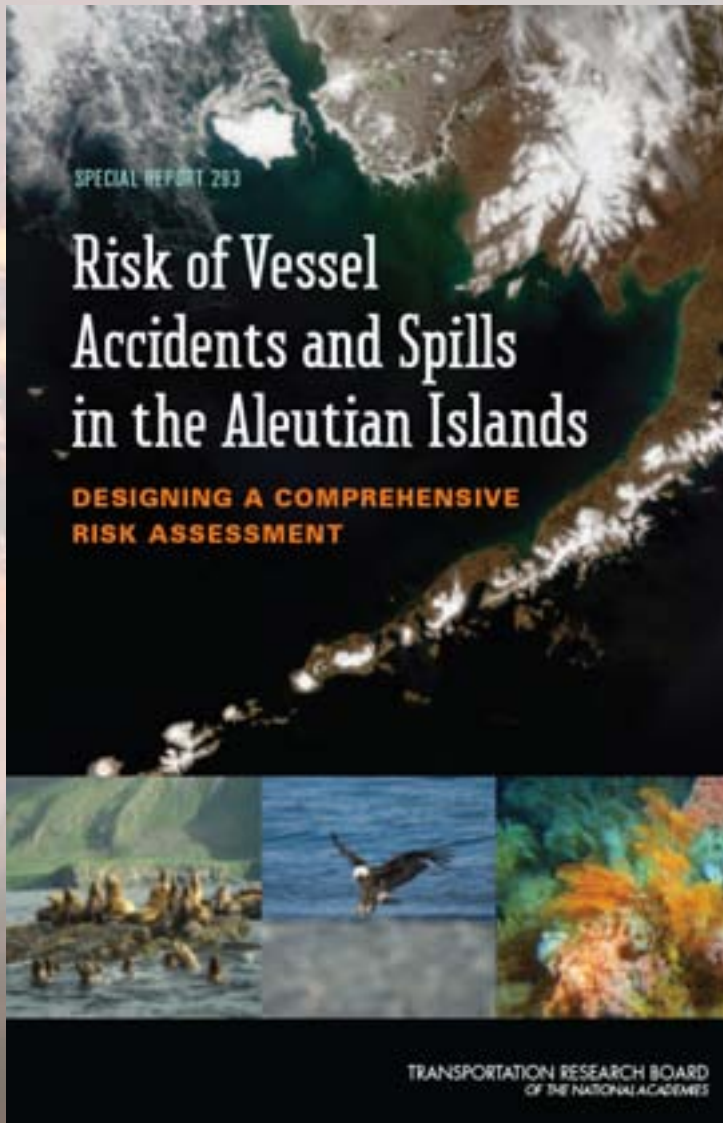
## 2007 Navigational Forum – Consensus Points

- Cook Inlet RCAC should move forward with a risk assessment,
- Engaging in the political process will be necessary to obtain funding, and
- Public participation and outreach will be critical to the success of the risk assessment.



# Project Background

Cook Inlet  
RISK ASSESSMENT



National Academy of Sciences  
Transportation Research Board  
Special Report 293



# Work Plan

- Limits and Bounds
- Organization and Management Structure
- Project Steps/Tasks
- Timeline
- Deliverables





# Limits and Bounds

## Substances

- Oil
  - Cargo, Crude Oil or Refined Product
  - Fuel, Bunkers





# Limits and Bounds

## Vessel Types

- Containerships
- Bulk carriers
- Gas carriers
- Car carriers
- Cruise ships and Ferries
- Crude oil tankers
- Product tankers
- Tank barges and tugs
- Cargo barges and tugs
- Chemical carriers
- Tugs
- Government Vessels



# Limits and Bounds

## Accident Types

- Collisions
- Allisions
- Powered Groundings
- Drift Groundings
- Foundering
- Structural Failures
- Mooring Failures
- Fires



# Limits and Bounds

## Geographic Region





# Organization

## Management Team

- Mike Munger, CIRCAC
- Gary Folley, ADEC
- Captain Jason Fosdick, USCG

## Project Managers

- Nuka Research and Planning Group, LLC.



# Organization

## Possible Advisory Panel

- Fisheries
- Local Government
- Mariner, Pilot
- Mariner, Salvor
- Mariner, Containerships
- Mariner, Tug and Barge
- Mariner, Tank Ship
- Mariner, General
- Non-Governmental Org.
- Resource Manager
- Subsistence User





# Tasks

1. Project Communications
2. Facilitate and Support Manage Team and Advisory Panel
3. Vessel Traffic Study
4. Baseline Accident and Spill Study
5. Consequence Analysis Workshop



# Tasks

6. Identify Risk Reduction Options
7. Evaluate Risk Reduction Options
8. Prioritize Risk Reduction Options and Prepare a Final Report





# Timeline

Milestone	Completion
Form Advisory Panel	1 <sup>st</sup> Year- 3 <sup>rd</sup> quarter
Draft Vessel Traffic Study	1 <sup>st</sup> Year- 3 <sup>rd</sup> quarter
Final Vessel Traffic Study	1 <sup>st</sup> Year- 4 <sup>th</sup> quarter
Draft Spill and Casualty Study	2 <sup>nd</sup> Year- 1 <sup>st</sup> quarter
Final Spill and Casualty Study	2 <sup>nd</sup> Year- 2 <sup>nd</sup> quarter
Consequence Workshop	2 <sup>nd</sup> Year- 2 <sup>nd</sup> quarter
Consequence Report	2 <sup>nd</sup> Year- 3 <sup>rd</sup> quarter
Identify Risk Reduction Options	2 <sup>nd</sup> Year- 3 <sup>rd</sup> quarter
Rank and Prioritize Risk Reduction Options	2 <sup>nd</sup> Year- 4 <sup>th</sup> quarter
Draft Final Report	2 <sup>nd</sup> Year- 4 <sup>th</sup> quarter
Publish Final Report	2 <sup>nd</sup> Year- 4 <sup>th</sup> quarter



# Deliverables

- Vessel Traffic Study
- Spill and Causality Study
- Consequence Workshop Report
- Risk Reduction Recommendations
- Final Report



# Outreach Efforts

- Email Contacts
- Advisory Panel Solicitation
- Public Meetings
- Website





**Cook Inlet Risk Assessment**

Home | Project Background | Team | Plan | Meetings | Documents | Contacts

## COOK INLET RISK ASSESSMENT

**News/Highlights**

**Project Home Page**

The Cook Inlet Regional Citizens Advisory Council (CIRCAC), Alaska Department of Environment Conservation and U.S. Coast Guard have launched the Cook Inlet Risk Assessment, which will examine the risk of oil spills posed by the marine vessels transiting through, near and/or servicing the region. The goal of the risk assessment is to answer the following questions:

- What can go wrong?
- How likely is it?
- What are the impacts?
- Can the impacts be mitigated?

The risk assessment will examine the current types and sizes of vessels plying Cook Inlet, dominate accident types and attempt to identify future oil spill risks based on vessel size, type and frequency. The first phase of the risk assessment will be limited to a semi-qualitative analysis. The study will rely primarily on historical data, expert opinion, and lessons learned from prior studies. Study results will provide a basis for the identification and initial ranking of risk reduction measures.

Recent years have seen a trend in risk assessment towards extensive engagement of stakeholders throughout the process of defining and analyzing risks and identifying risk reduction measures. An Advisory Panel for this project will be established in the mid-2011.

Initial funding for the risk assessment was secured through a legislative appropriation by State of Alaska and is being administered by the Kenai Peninsula Borough and CIRCAC.

Add your Name to our Distribution List for Project Updates

# Questions?

