The One Ocean Model: Fishing and Petroleum Industries in Newfoundland and Labrador, Canada

North Aleutian Basin Energy- Fisheries Workshop

Anchorage, Alaska – March 18, 2008

Gordon Slade, Executive Director, One Ocean Corporation
What is ONE OCEAN?

• One Ocean is a liaison organization established by and for the fishing and petroleum industries in 2002

• One Ocean is comprised of an Industry Board, a Chairman, and a Secretariat.
One Ocean Industry Board

Fishery Representatives:

• Fish, Food and Allied Workers union;
• Association of Seafood Producers;
• Department of Fisheries and Oceans (Regulator) sits as an Official Observer.
One Ocean Industry Board

Petroleum Representatives:

- Canadian Association of Petroleum Producers (CAPP); Petro-Canada; ExxonMobil, Husky Energy; StatoilHydro and Chevron Canada Resources.

The Canada-Newfoundland and Labrador Offshore Petroleum Board (Regulator) sits as an Official Observer.
What is ONE OCEAN?

• Industry Board representatives sit face-to-face to discuss operational activity issues, as well as government mandates and legislative frameworks.

• This medium to convene the fishing and oil and gas sectors never existed in the province until the inception of One Ocean. This model is unique in Canada and the world.
Why does Newfoundland and Labrador Need
Newfoundland and Labrador

The last province to join Canada in 1949, Newfoundland and Labrador is a major contributor to this country’s longest coastline in the world and second largest continental shelf.

The island of Newfoundland is 113,390 km² and mainland Labrador is 291,330 km² - giving us a coastline that expands over 17,542 km.
Newfoundland and Labrador

The province’s population is approximately 512,930.

Of the 694 communities in Newfoundland and Labrador, 608 are coastal communities (2km radius).
Socio-Economic Perspectives

• The collapse of the fishery in early 1990s devastated the entire rural coastal economy of NL; directly affecting the livelihood of 30,000 fishermen and plant workers and eliminating the economic mainstay of 510 communities.

• Either direct or indirect impact of the failed fishery diminished the livelihood of 65% of the population of NL – the societal catastrophe is still felt today.
During a period of economic and social imparity, brought about as a result of a declining and unprecedented structural adjustment in the fishery, the prospect of a lucrative petroleum industry offshore NL instilled a belief of economic recovery and even prosperity.
Hibernia

- Discovered in 1979
- First Oil on November 17, 1997
- Reserves:
  - 884 million barrels of oil
  - 145 million barrels of natural gas liquids
  - 1.375 TCF gas
- Average daily production is 200,000 barrels of oil per day
- Development cost: $5.8 billion

- Hibernia South Extension: 2006 positive drilling results on existing reservoir
- Next step is approval for development
Terra Nova

• Discovered in 1984

• First Oil on January 20, 2002

• Recoverable Reserves:
  • 406 million barrels of oil
  • 14 million barrels of natural gas liquids
  • 0.3 TCF gas

• Average daily production is 110,000 barrels of oil per day

• Development cost: $2.8 billion

• 2006 upgrade work: new module being constructed to house 40 extra workers and other maintenance work on the FPSO
White Rose

- Discovered in 1984 (12-15 year production life)
- Resources:
  - 283 million barrels oil
  - 96 million barrels natural gas liquids
  - 2.7 TCF of gas
- First Oil on Nov. 12 2005
- Production Capacity is 100,000 BOPD
- Development cost: $2.3 billion
- Currently commissioning gas compression

Husky Energy SeaRose FPSO
C-NLOPB Land Parcels
One Ocean Activities
2002- Scotland-Norway Study Tour
2003- One Ocean Industry Workshop
2004- Marine Emergency Oil Spill Card
2005- Fishers in Oil Spill Counter-measures Training
2005-2008 One Ocean Ottawa Delegation
2006- North Harbour Project
2006 Ongoing Canada Ocean Lecture Series
2008- Study Tour Scotland-Norway
As part of the oil spill preparedness and counter-measure initiative for Newfoundland and Labrador, One Ocean has partnered with the Canadian Coast Guard, Transport Canada and Environment Canada, to produce the Environmental Emergency Oil Spill Information Card for fishermen and other ocean users. The card was sent to over 5,000 fishers and marine users in November, 2004. It provides information on identifying a spill, what to do as a mitigative factor, and who to contact. The Card is available in French.
What is the Training Program?

• One Ocean and industry partners will train 500 fisheries workers in oil spill counter-measures in the onshore and near shore interface.

• The 5-day training program will take place in 15 communities throughout Newfoundland and Labrador.

• The curriculum/fieldwork for the course was developed to meet and surpass international standards.
What is the Training Program?

• The major objective of this project is to enhance understanding of oil spill response at a community level;

• Providing community-based oil spill counter-measure training will ensure faster response time;

• Timing is critical in terms of mitigating the impact of oil contamination on shorelines, marine species, habitat, seabirds and waterfowl.
Counter-Measure Training
Industry Related Partners

• The Fisheries and Marine Institute provide Instructors for the Training; it is certified
• One Ocean and the Fisheries and Marine Institute have a $600,000 Mobile Trailer
• Fisheries groups endorse and promote the program
• Government Departments have committed to actively participate in the program for its entirety
The Training Program

• Some of the courses that will be offered include:
  ▪ Oil Spill Containment and Protection Techniques
  ▪ Spill Behaviour and Assessment
  ▪ Oiled Wildlife Recovery & Treatment
  ▪ Sorbents
  ▪ Shoreline Cleanup & Techniques
  ▪ Transfer Storage and Disposal
Oil Spill Counter-Measures Training

• The training of fisheries workers in oil spill counter-measures is a logical and cost effective practice. Fishers have an inherent knowledge of the geophysical and biophysical components of our ocean.

• It will also provide a new awareness and understanding of the oil and gas sector that operates in the same marine environment.
North Harbour Community Environmental Emergency Planning and Preparedness
EMERGENCY COMMUNITY PLANNING

One Ocean and students from the Marine Institute:

• Is North Harbour prepared for an environmental emergency?
• This is based on the need to prioritize proactive versus reactive practices at the community level.
• Organized several community meetings
• Developed a questionnaire to assist in the development of an emergency plan
EMERGENCY COMMUNITY PLANNING

• Importance of plan
• Risks (socio-economic) associated with this area/industry
• Inventory of community/surrounding area
• Demographic component
• Mapping of areas including “sensitive”
• Organizations involved in response/contacts
• Personal Preparedness
• Community rights
• Recommendations for Plan Development
ONE CHANGING OCEAN: A Northern Perspective

Dr. Eddy Carmack
2007 Massey Medalist
DFO-Institute of Oceans Science, Sidney, B.C.

2007 Massey Medalist, Dr. Eddy Carmack, an internationally respected expert on the Arctic Ocean, will be the Opening Plenary speaker at the 2007 National Conference of the Ocean Management Research Network. A climate change oceanographer with Fisheries and Oceans Canada in Sidney, B.C., Dr. Carmack’s presentation will draw together aspects of climate, resources and human issues affecting the Arctic Oceans today.

Purpose of the Canada Ocean Lecture series is first and foremost to create awareness of our vast marine environment and its importance to Canadians.
gordon.slade@mi.mun.ca

Telephone: 709 778-0519
MISSION STATEMENT

One Ocean shall be the medium for information exchange regarding industry operational activities between the fishing and petroleum industries in Newfoundland and Labrador, and as an informed entity, will initiate research and industry specific activities to meet industry challenges, as well as promote cooperation, transparency and information dissemination between these industry sectors.