



**Asia-Pacific
Economic Cooperation**

2015/SOM2/OFWG/008

Agenda Item: IV C a ii


Preparedness, Response, and Assessment of Oil Spill (PRAOS) Phase I

Purpose: Information
Submitted by: Korea





APEC
PHILIPPINES
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**5th Oceans and Fisheries Working Group Meeting
Boracay, Philippines
10-12 May 2015**



Preparedness, Response and Assessment
of Oil Spill (PRAOS) Phase I

2015 . 5. 10.
5th APEC OFWG, Boracay



Contents

- I** Introduction of PRAOS I
- II** Outcomes of PRAOS I
- III** Evaluation of PRAOS I
- IV** Future Outlook

I . Introduction of PRAOS I

1. Background of PRAOS

- **The negative impact of marine oil spills**
 - Human livelihood, food security, stability in transboundary marine resources trade → effects the overall growth of the APEC region
- **Extent of marine oil spills damages**
 - Mitigated through prevention and response to oil spills by effective emergency preparedness
- **Development of PRAOS**
 - 'Preparedness, Response and Assessment to Oil Spill (PRAOS)' project was developed in 2014 in order to raise the awareness of the social, economic and environmental damages caused by marine oil pollution which disrupts and impacts the trade, growth and livelihood of the APEC region

I . Introduction of PRAOS I

2. Training Program for Phase I

- **Date / Venue** : Nov. 3~7, 2014 / Yeosu Expo Convention, RO Korea
- **Total Budget** : 110,000 USD(APEC), 54,000 USD(Self-fund)
- **Co-sponsoring Economies** : Chinese Taipei, Indonesia, People's Republic of China, United States
- **Participating OFWG Economies** : Chile, Chinese Taipei, Indonesia, Malaysia, Peru, PNG, Philippines, Republic of Korea, Russia, Thailand, Vietnam
- **Participating EPWG Economies** : Australia, Philippines, Thailand, Vietnam
- **Participating International Organization** : International Maritime Organization

I. Introduction of PRAOS I

3. Key Objectives for Phase I

- Information sharing on oil spill preparedness and response
- Practice real time emergency situation
- Build network of oil spill experts within the APEC region



II. Outcomes of Phase I

(1) Lectures and Information Sharing (Keynote)



Preparedness, Response and
Assessment of Oil Spill (PRAOS) in
the Apec Region, Phase I

Colleen O'Hagan

Spill Response Strategy
(Open Water)

IMO

- Keynote Speech by Ms. Colleen O'Hagan, OPRC-HNS, IMO
- Lectures on the Overview of Spill Response and Spill Response Strategy (Open Water)

II. Outcomes of Phase I

(1) Lectures and Information Sharing (Case Study)

Preparedness, Response and Assessment of Oil Spill (PRAOS), Phase I
Implementation plan on oil spill monitoring:
Lesson learned from the Montara case

Widodo S. Pranowo

Preparedness, Response and Assessment of Oil Spill (PRAOS), Phase I
Case Studies of Emergency Response of a Recent Marine Incident- M/V Oberon

Hsin-Chen Siang
Senior Technical Specialist
Environmental Protection Administration

HEBEI SPIRIT Oil Spill Response

2014. 11.

- Indonesia – Montara Platform Incident
- Chinese Taipei – M/V Oberon Incident
- Republic of Korea – Hebei Spirit Incident

II. Outcomes of Phase I

(1) Lectures and Information Sharing (National Experts)

- International Law and the Legal Framework
- Regional Contingency Plan(NOWAP)
- Oil Differentiation and Impacts
- Communication and Media
- Response Equipment and Training
- Liability and Compensation
- Spill Response Objectives and Policy Issues

II. Outcomes of Phase I

(1) Lectures and Information Sharing (Participants)



- **Russia – Methods, Models and Technologies of the Information Support for Emergency Response**
- **Philippines – Adaptive Capacity of Communities during Disasters (EPWG Member)**
- **Australia : Contingency Planning Process, On Shore Cleanup (EPWG Member)**

II. Outcomes of Phase I

(2) Real Time Emergency Training (On Site Training)



- **Oil Spill Simulation Wave Basin**
- **Oil Spill Response at Yeosu Bay**
- **Oil Spill Response Equipment Demonstration**
- **Response Equipment Stockpile Facility Tour**

II. Outcomes of Phase I

(3) Network Building (Tabletop Exercise)



- **Tabletop exercise main objectives**
 - Identify source of pollution and environmentally sensitive area
 - Predict the spreading direction of oil and establish a task form team
- **Response Operation Exercise**
 - Establish response strategy and expand support through cooperation
 - Situation report and communication tactics (media/public)

II. Outcomes of Phase I

(4) Output Indicators

Indicator	Planned	Actual	Details
Workshop	1	1	November 3-7,2014
participants	30	20	Including 4 Expert Speakers
Female Participants	15	9	45 Percent of participants
Developing Economies	11	9	
Speakers	5	4	IMO and 3 co-sponsor Economies
Other Organizations	1	1	Expert & Keynote speaker from IMO
Publications	1	1	Training Manual

III. Evaluation of Phase I

(1) Project Evaluation Results

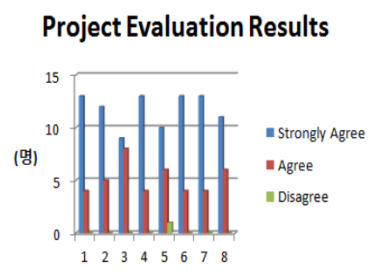
Evaluation Question

- 1) The objectives of the training were clearly defined
- 2) The project achieved its intended objectives
- 3) The agenda items and topics covered were relevant
- 4) The content was well organized and easy to follow
- 5) Gender issues were sufficiently addressed during implementation
- 6) The trainers/experts were well prepared and knowledgeable about the topic
- 7) The material distributed were useful
- 8) The time allotted for the training was sufficient

III. Evaluation of Phase I

(1) Project Evaluation Results

	Level of Agreement		
	Strongly Agree	Agree	Disagree
1	76%	24%	0%
2	71%	29%	0%
3	53%	47%	0%
4	76%	24%	0%
5	59%	35%	6%
6	76%	24%	0%
7	76%	24%	0%
8	65%	35%	0%



- Total of 17/20 participants (Including Expert Speakers / Excluding Korean Speakers) participated in this survey
- General response was very positive

III. Evaluation of Phase I

(2) Participant Comments

- The involvement of EPWG members to this training program was essential considering it strengthened the international networking and communications between oil spill experts
- The program offered in-depth understanding to oil spill response through the informative lectures and the various field exercises
- Future training programs should incorporate more table top exercises where participants can interact with the trainers in order to develop scenarios that can be compatible to their own economies

IV. Future Outlook

1. Phases of PRAOS

- **Phase 1** : Training program on raising the awareness and attention of the APEC economies on responding to marine oil spill
- **Phase 2** : Training program on environmental impact assessment in marine oil spill
- **Phase 3** : Provide technical assistance to develop an operational manual for economies lacking effective response programs
- **Phase 4** : Develop an APEC regional collaborative measure on marine oil spills

IV. Future Outlook

2. Preparations for PRAOS Phase II

- Develop concept note of PRAOS Phase II for July 2015 submission
- Seek Co-sponsor Economies
- Collaborate with Emergency Preparedness Working Group to foster cross-fora collaboration
- ❖ Present at the 8th EPWG Meeting during SOM II (May 13th)
- Objectives
 - ❖ Social-economic, governance, management, scientific analysis of environmental impact assessment of oil spill incidents

IV. Future Outlook

3. Mid-Term Outcomes Expected

- Planning, policy and regulation change responding to oil spill incidents with the careful consideration of each economies' specifics and diversified needs
- Public awareness and education increased by establishing wider partnerships at regional, national and international levels leading to improved cooperation
- Community based oil spill disaster resilience managed strengthened

