

# **NOWPAP MERRAC**

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Northwest Pacific Action Plan  
Marine Environmental Emergency Preparedness and Response  
Regional Activity Centre

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## **Report of NOWPAP Regional OPRC Training Course (IMO Level 2 Course)**

Incheon, Republic of Korea

28 October - 01 November 2002

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## Report of NOWPAP Regional OPRC Training Course (IMO Level 2 Course)

Incheon, Republic of Korea

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**TITLE PAGE AND EXCLUSIVE SUMMARY**

<b>Title of the Course:</b>	NOWPAP Regional OPRC Training Course (IMO Level 2 Course): IMO OPRC Level 2, Supervisors / On-Scene Commanders Course
<b>Host:</b>	Korea National Maritime Police Agency, Republic of Korea
<b>Venue:</b>	Korea Marine Pollution Response Corporation, Incheon, Republic of Korea
<b>Date:</b>	28 October to 1 November 2002
<b>Type:</b>	Regional Training Course for the Coastal States of the Northwest Pacific Region
<b>Organized by:</b>	MERRAC and IMO under the auspices of the UNEP and in co-operation with the IMO Global Initiative and Korea National Maritime Police Agency, Republic of Korea
<b>Participating countries:</b>	<b>NOWPAP Members :</b> Japan, People's Republic of China, Republic of Korea and Russian Federation
<b>Number of participants:</b>	17 trainees + 2 staffs of MERRAC + 4 lecturers from IMO, ITOPF, OSRL and IOPC Fund
<b>UNEP Project Number and Budget line:</b>	PN/6030-02-05

**Exclusive Summary:**

The course was aimed at providing selected national staff with the knowledge and skills required by Supervisors or On-Scene Commanders designated by governments and other authorities or the oil industry. The course provided information on issues related to national and regional oil spill preparedness, response and co-operation, including but not limited to contingency planning, response management and organization, response policy, oil spill behavior, fate and effects, assessment of oil spills, shoreline clean-up, transfer, storage and disposal of oil, evidence gathering and documentation, media relations, claims and compensation and termination of a response operation. The participants, representing governmental authorities and agencies, had the right background knowledge and experiences to receive maximum benefit of the presentations and discussions. This was reflected during the course by many relevant questions asked and issues discussed. The course was well received and participants expressed the view that the level was relevant and the outcome was satisfactory. 13 participants (~ 76.5%) returned the Seminar Evaluation Form. Of these 76.5%, 82,6% indicated that the goals of the lectures were "Fully met" and that 17.4% of the lectures met its goals "In Part". Nobody indicated any lectures as "Did not meet". The Course Director was asked to inform IMO and the Responsible Authorities of the participating States accordingly and to invite IMO to continue its support on the development of sustainable regional and national capabilities to respond to oil spills within the NOWPAP Region. The representatives of P.R. China suggested a national Level 3 Course to be held in China during year 2003. MERRAC invited IMO to consider another regional training courses, Level 2 as appropriate during year 2003, subject to approval by the NOWPAP MERRAC Focal Points Meeting.

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## 1. COURSE PREPARATION AND IMPLEMENTATION

1.1. The 5<sup>th</sup> NOWPAP MERRAC Focal Points Meeting (MERRAC, 20-24 May 2002) agreed that MERRAC carry out the Routine Task relating to the “Training & Exercise” to coordinate and organize joint training course and exercise. The expected output of the task was designated as “Establishment of trained personnel in the field of oil spill preparedness and response in the NOWPAP region” (Annex 8 of the UNEP/IMO/NOWPAP/MERRAC /FPM 5/18)

1.2. The same meeting also decided that a NOWPAP Expert Advisory Group Meeting be organized in the form of a NOWPAP OPRC Training Course (IMO level 2 Course) during the intersessional period after the 5th MERRAC Focal Points Meeting, as one of the proposed activities of MERRAC in the 2002/2003 biennium. The workplan and budget for the training course was agreed at the meeting

1.3. Based upon the decision by above-mentioned meeting, the Marine Environmental Emergency Preparedness and Response Regional Activity Centre (MERRAC) initiated the organization of the training course during the intersessional period after the Meeting. Also, MERRAC requested IMO to assist in organizing the Training Course. The assisting works in organizing the training course was done by the Marine Environment Division, IMO in close co-operation with MERRAC.

1.4. The Korea Marine Pollution Response Corporation (KMPRC) was chosen as the venue of the course following the kind recommendation put forward by the Government of Republic of Korea that had been decided as the host country for the training course at the 5<sup>th</sup> MERRAC Focal Points Meeting. Mr. John Østergaard, Senior Adviser on Marine Pollution, Marine Environment Division of IMO acted as course director and prepared the final report.

1.5. Based upon the decision of the 5<sup>th</sup> MERRAC Focal Points Meeting, the IMO OPRC Level 2 Model Course as the NOWPAP Regional OPRC Training Course was planned and implemented in compliance with the IMO Guidelines and followed in general the programme suggested by the Model Course as amended to ensure compliancy with regional and local requirements.

1.6. The training course was conducted at the facilities of the Korea Marine Pollution Response Corporation (KMPRC) in Incheon in 28 October – 01 November 2002. The facilities were absolutely satisfactory and the service rendered by the staff at the Centre was excellent and contributed widely to the success of the course.

1.7. To facilitate the participants knowledge on practical oil spill contingency planning and the use of equipment, an excursion to the Korea National Maritime Police Agency (KNMPA) oil spill response centre and the Korea Marine Pollution Response Corporation (KMPRC) response base in Incheon was organized Thursday afternoon. A visit was also made to the impressive locks for Incheon Port. During the visit the staff at the KNMPA and KMPRC gave a comprehensive presentation of their oil spill response equipment and explained in detail the operations of their respective authority/organization.

1.8. Documentation for the Course was provided by lecturers, copied by the organizers and distributed to all the participants. For reasons of costs savings the standard IMO documentation package was partially submitted to the participants.

1.9. MERRAC provided all the costs regarding the invitation of lecturers, publication of the documentations and supports of travel expense for the selected trainees from the NOWPAP Members. MERRAC also organized the formalities relating to issuing of visas for the Republic of Korea for all participants and lecturers.

## **2. PARTICIPANTS**

2.1. 23 persons, including four lecturers and two staffs from MERRAC, attended the course. The trainees came from the NOWPAP Members: Japan (3), People's Republic of China (3), Republic of Korea (8) and Russian Federation (3). The major part of the trainees came from their respective national authorities responsible for accidental marine pollution preparedness and response. The travel expenses of the participants excluding from the host country were supported from MERRAC.

2.2. A list of participants is attached as Annex I.

## **3. LECTURERS**

3.1. The following persons participated as lecturers and covered the following topics.

Mr. John Østergaard, Marine Environment Division, IMO

Topics:

- Opening and closing ceremony
- Course introduction
- Overview of spill response
- Contingency planning, Response Management and Organization
- Media relations
- Post incident debriefing
- Course review and debriefing
- Exercise

Dr. Tosh Moller, International Tanker Owners Pollution Federation (ITOPF)

Topics:

- Oil spill behaviour, fate and effects
- Spill assessment
- Use of dispersants
- Shoreline Clean-up
- Transfer, storage and disposal
- Evidence gathering and documentation
- Response deactivation
- Case studies of recent spills
- Exercise

Mr. Richard Tatner, Oil Spill Response Ltd. / International Petroleum Industry Environmental Conservation Association (IPIECA)

Topics:

- Operations planning
- Containment, Protection and recovery of oil
- In-situ burning, Bioremediation and Absorbants
- Site Safety
- Command, Control, Communications and Information
- Case studies of recent spills
- Exercise

Mr. Joe Nichols, International Oil Pollution Compensation Fund (IOPC Fund)

Topic:

- Liability, claims and compensation
- Case studies of recent spills
- Exercise

3.2. The Table Top exercise held Friday morning was the second test of a possible Standard Level 2 exercise prepared and developed by IMO. The exercise was well received by the participants and created big discussions and a lot of activities. It was the view of those who commented on the exercise, that it in a practical and operational manner addressed most of the issues covered by the course. The exercise was recommended for use as a Standard Exercise a future OPRC Level 2 courses. All the lecturers took part in the conducting and debriefing of the exercise.

## **4. COURSE PROGRAMME**

4.1. The Programme was initiated on Monday, 28 October at 09.30 and terminated on Friday, 1 November at 15.00. The Programme was organized with one morning session from 08:30 to 12:30 and an afternoon session from 14:00 to 17.30 with coffee/tea breaks at 10:30 and 16:00. The Programme complied with the IMO OPRC Level 2 Model Course standard programme, taking into consideration proposals for local requirements and suggestions.

4.2. During the afternoon of Thursday, 31 October an excursion to the Korea National Maritime Police Agency (KNMPA) and Korea Marine Pollution Response Corporation (KMPRC) response base was organized by KNMPA and KMPRC. The participants were introduced to the oil spill response equipment and were given a comprehensive briefing on the national oil spill contingency planning process. In addition, the excursion went to the locks of Incheon Port. The excursion was much appreciated by all participants.

4.3. The Course Programme is attached as Annex 2.

## **5. OPENING OF THE COURSE**

5.1. Dr. Chang-Gu Kang, Director, NOWPAP MERRAC opened the seminar and

welcomed everybody to the Training Course. He informed that this training course was the first regional training activity to be initiated by MERRAC. The training course had been agreed to by the Fifth NOWPAP MERRAC Focal Points Meeting held from 20 to 24 May 2002, in Daejeon, Republic of Korea, and should be seen as the direct consequence of the finalization in principles of the draft NOWPAP Regional Oil Spill Contingency Plan for the Northwest Pacific Region. He recalled that the NOWPAP region had experienced both the economical and environmental consequences of major marine oil spills that had taken place in the Region over the last ten years. He therefore considered the training course as timely and very important for the development of the national response capability in each of the States, as well as a catalyst for improved regional co-operation and understanding. Finally, he expressed the appreciation of support from IMO, the IOPC Fund, IPIECA, ITOPIF and KNMPA and KMPRC. He confirmed the MERRAC supports to the present course and wished it all success.

5.2. Mr. Tae-Hwan An, Director-General, Korea National Maritime Police Agency (KNMPA) also welcomed the participants and the lecturers to Incheon and wished all a pleasant stay. He recalled that the Republic of Korea within the last decade had experienced the consequences of a number of serious marine oil spills. He informed that all oil consumed in the Republic has to be imported from abroad mostly as crude oil. After being processed at local refineries a lot of the oil was then redistributed by coastal product tankers. Taking into consideration this heavy oil traffic combined with other shipping and also the complicated navigational conditions of the coastal waters of the Country the scene was set for accidents at sea with consequential serious oil spills. This situation was fully recognized by the Government of the Republic of Korea, why the necessary national legislation in compliance with international conventions had been adopted by the Parliament.

5.3. In addition, the necessary funding for development of a national oil spill response capability had been provided, why the Republic now had in place a modern and efficient oil spill response capacity under the control of KNMPA and the Korean Marine Pollution Response Corporation (KMPRC).

5.4. Mr. Dong-Won Lee, Chairman of Korea Marine Pollution Response Corporation (KMPRC), Seoul, also welcomed all participants to Korea and to the Pollution Response Corporation facility in Incheon. He informed that the Corporation was proud of hosting the first oil spill training event under the NOWPAP Region, and hoped that all would enjoy their stay in Incheon. He informed that facilities similar to the Incheon facility were established in all major ports of the Republic. KMPRC is as self supporting Corporation, which in general are funded by a number of services the Corporation provides on a commercial basis necessary to operate a big and modern port. He confirmed that the Incheon facility would provide all possible support, to facilitate an effective and pleasant training course.

5.5. Mr. John Østergaard, the Course Director, gave the opening speech on behalf of IMO. He welcomed everybody to the training course and thanked the Government of the Republic of Korea for hosting the course and for all the assistance provided so far. He also expressed appreciation and sincere thanks to the NOWPAP MERRAC for preparing and organising all the logistics for the training course and for the support provided by KMPRC by providing the excellent training facilities and the logistics related to the implementation of the course. He welcomed the continuous support from the IOPC Fund and the industry, in this case the professional support provided by IPIECA and ITOFF. He emphasized the importance of the training course as a means to facilitate sustainability and the further development of regional co-operation within the NOWPAP region and the intentions of IMO to continue its support, not only at the regional level but also to each of the individual States of the Region as appropriate.

## **6. BRIEF SUMMARY ON EACH LECTURE**

### **6.1. Introduction (Session 1) By Mr. John Østergaard**

The Introduction lecture provided information on administrative, practical and logistical arrangements for the course, as well as it set out the general objectives of the Course. It also provided for a general presentation of the lecturers as well as the Participants. The lesson emphasized that only by good co-operation and active participation would it be possible to meet the objectives of the course.

### **6.2. Overview of Spill Response (Session 2) By Mr. John Østergaard**

The lesson provided information on the key elements and challenges of an oil spill response and the Supervisor / On –Scene Commander’s (OSC) role, responsibilities and the actions they must take during the response. It emphasized the need for contingency planning and the interests and role of the parties to an oil spill, such as environmental organizations, media representatives, and how they might impact the role of the OSC.

### **6.3. Contingency planning, Response management and Organization (Session 3) By Mr. John Østergaard**

The lesson described the purpose and main types of contingency plans, including the key components and main components to be considered in connection with the development of the plan. It described the initial response actions and suggestion for a basic response organization and how this organization might be expanded in case of a major incident. It considered the characteristics of managing the incident during the initial or critical phase and described the factors involved in commanding and controlling the response. It made suggestion on issues to be considered in connection with the establishing a command centre, the main elements of logistic support. Matters to be considered in connection with response planning were described as well as the factors related to the providing for the needs of the response teams

6.4. Oil Spill Behaviour, Fate and Effects (Session 4)  
By Dr. Torsh Moller

The lesson provided information on the physical properties of various types of oil and how they evaporate, move, emulsify, disperse and spread when they are released to the marine environment and what effects these factors will have on the response effort. It provided information on methods used for estimating key property changes and factors in determining oil type and weathered state, including factors in estimating likely trajectory and fate of spills and its likelihood of coming ashore.

6.5. Spill Assessment (Session 5)  
By Dr. Torsh Moller

The lesson provided information on reasons for responding or not responding to spills based on the assessment of initial information received on an oil spill. It explained methods for estimating spill size by analysing the spill source. The use of air surveillance in oil spill response was explained. It provided information on various factors to be considered in estimating potential damage associated with spill.

6.6. Operations Planning (Session 6)  
By Mr. Richard Tatner

The lesson provided information on factors to be considered in developing the response objectives and the overall strategic plan and how this work might be distributed between established planning teams. It listed the planning activities and the various components of an operational plan.

6.7. Containment, Protection and recovery of oil (Sessions 7 and 8)  
By Mr. Richard Tatner

The lesson provided information on the main response strategies, the equipment used, its strength and limitations including the use of booms and skimmers in open sea and coastal operations deployed for the purpose of containment, protection and recovery of oil. It considered the use of sorbents, in-situ burning and bioremediation, their benefits and limitations. It described the factors to be considered when monitoring the effectiveness of a recovery operation.

6.8. Use of dispersants (Session 9)  
By Dr. Torsh Moller

The lesson provided general information on how dispersants work and described the advantages, disadvantages and limitations of the use of dispersants.

6.9. Shoreline cleanup (Session 10)  
By Dr. Torsh Moller

The lesson provided general information on the behaviour and persistence of stranded oil and explained the main steps in a shoreline cleanup operation. It described the goals of a clean-up operation and the options for varying degrees of cleanup based upon an

assessment of oiled shorelines. The lesson further described the general principles of shoreline cleanup, including the environmental effects of various cleanup techniques and the principal shoreline cleanup methods used. It discussed the different factors to consider when developing a shoreline cleanup plan and the criteria for terminating shoreline cleanup operations.

6.10. Site Safety (Session 11)  
By Mr. Richard Tatner

The lesson provided information on the potential hazards associated with oil spill operations and the employer and employees responsibilities for site safety. It described the principles of safe operation and the key elements of a safety plan.

6.11. Transfer, Storage and Disposal (Session 12)  
By Dr. Torsh Moller

The lesson provided information on the overall planning factors for handling, storage and disposal of oily waste materials, and described the types of wastes normally encountered on a spill site. It described the factors to consider when selecting options for temporary storage and final disposal.

6.12. Media Relations (Session 13)  
By Mr. John Østergaard

The lesson provided information on the needs of the media (newspapers, radio and television) and factors involved in successfully handling of the media. It provided guidelines for a successful media interview and recommendations on how to conduct a one-on-one interview.

6.13. Evidence gathering and Documentation (Session 14)  
By Dr. Torsh Moller

The lesson provided information on the responsibility of the OSC related to evidence gathering. It described the key components of an evidence gathering plan, procedures for sample gathering and the use of photo evidences. In addition it emphasized the need for comprehensive log keeping as a tool to facilitate reporting, claims and compensation.

6.14. Command, control, communications and information (Session 15)  
By Mr. Richard Tatner

The lesson identified the most common communication problems encountered during an oil spill response operation and the responsibilities of the OSC to develop a communications plan to ensure that appropriate contact with all units can be maintained during all phases of the response operation. Finally, the lesson provided information and training on how to prepare a communication plan and write an incident brief.

6.15. Liability and compensation (Session 16)  
By Mr. Joe Nichols

The lesson provided the background for the development of the 1969 Civil Liability Convention (CLC 1969) and the 1971 FUND Convention (FUND 1971) and the fundamental features of the international compensation regime. It described the role of the Protection and Indemnity (P & I) Clubs and the consequences of the 1992 Protocols to the CLC and Fund Conventions. Finally, it described the implications of the international compensation regime on the OCS functions when responding to an incident vis-à-vis cost recovery and claims.

6.16. Response deactivation (Session 17)  
By Dr. Torsh Moller

The lesson provided information on the reason for initiating a response operation and for terminating it at sea and on shore. It discussed the methods for determining the potential for recontermination and the steps to be considered in relation to decontamination, conservation and storage of equipment in connection with the termination of the operation. Finally, it discussed factors involved in post-spill monitoring.

6.17. Post incident debriefing (Session 18)  
By Mr. John Østergaard

The lesson provided information on the participants and elements to be considered in the conduct of the post-incident debriefing. Finally, it provided details on the preparation of cost recovery documentation.

6.18. Case studies  
By Dr. Torsh Moller, Mr. Richard Tatner and Joe Nichols

Case studies on the ERIKA, BALTIC CARRIER, NAHODKA and other recent incidents were provided as illustrations of the problems related management, shore line clean-up, site safety, claims and compensation. Case studies are always well received by the participants and are very useful as a tool to facilitate a higher degree of understanding and questions.

## **7. EXERCISE**

**By all the lecturers**

7.1. A table top exercise developed and prepared by IMO was conducted on Friday morning.

7.2. The exercises covered all aspects of the training course and was initiated in two phases as group work, based on a fictitious scenario. During **Phase One**, the groups were requested to make a sensitivity evaluation and risk assessment of the exercise area. Each Group was provided with a fixed budget of 550,000 \$. This budget should cover the capital equipment purchases and the first year's cost of any full-time trained staff or training of staff made available. All reasonable costs incurred during a response to an incident might be reclaimed, why there was no need to budget for these costs during the following exercise. Each group was provided with detailed information on equipment and its purchase price and was requested to fill in a purchase order for necessary equipment

required to equip a port area and an oil terminal with sufficient resources to jointly respond to an oil spill incident should it occur in the area covered by the chart provided. It was assumed that the response should cover the first 24 hours of a spill incident, as additional equipment would arrive at the scene after 24 hours. Each group was also provided with detail additional information on wind, current, tide, type of oils transported to and from the area etc. and was requested to allocate roles and responsibilities in accordance with a provided organizational structure form. The planning and the purchased equipment would be available to the groups at the beginning of Phase Two of the exercise.

7.3. During **Phase Two**, an incident scenario, runned in accelerated time, was presented and the groups were required to respond as appropriate. A full record of the response should be recorded including mobilisation time and expenditure. The provided charts should indicate the position of any equipment deployed.

7.4. At the termination of the exercise, the designated On-Scene Commander of each group was requested to provide a debrief covering all details on hers / his groups considerations and response to the spill scenario.

7.5. In conclusion, the exercise was well received and created a lot of activities and discussions. It also provided a broad understanding of the role, function and responsibilities of the On-Scene Commander during an oil spill incident, and the staff members working close to her / him.

## **8. EXCURSION**

8.1 Thursday afternoon all participants and lecturers took part in an excursion to the Korea National Maritime Police Agency oil spill response centre. The locks of Incheon Port Authority and the Korea Marine Pollution Response Corporation equipment storage. The local oil spill response plan and the response capability were explained and demonstrated. Also a detailed explanation of the operation of Incheon Port's operation was provided. In this connection it was noted that Incheon Port is one of the ports of the world with the highest difference between high and low tide (approximately 8 metres). The presentations were highly appreciated and provided valuable information to the participants.

## **9. COURSE REVIEW AND COURSE EVALUATION**

**By Mr. John Østergaard**

9.1. Each morning a short review of the previous day's lectures together with a presentation of the days programme was conducted by the Course Director. The participants were invited to ask any questions related to the programme. The result of these daily reviews was that the final course review was very brief and only the few questions were asked by the participants. At the end the participants were invited to comment in general on the course. There were no negative comments at all. Several participants expressed great appreciation for all the information they had received. The representatives from the People's Republic of China enquired about the possibilities for

national courses at Level 2 and 3. The Director of MERRAC enquired about a similar course during year 2003, subject to approval by the NOWPAP MERRAC Focal Points Meeting, to be held in May 2003. In reply, Mr. John Østergaard informed that IMO was in general prepared to provide the assistance requested, and suggested further communication on this issue upon his return to IMO at the end of November.

9.2. In general the students were of the opinion that the content of the course was good and that the delivery of the lessons had been positive and encouraging. The programme was acceptable, and the logistics and support provided by the KMPRC was excellent.

## **10. CLOSING CEREMONY**

10.1. On behalf of IMO, the Course Director expressed his gratitude to the Government of the Republic of Korea for hosting the Regional Training Course, and in particular to the NOWPAP MERRAC, the Korea Marine Pollution Response Corporation and the Korea National Maritime Police Agency for their support, assistance and hospitality provided. He thanked the participants and the lecturers for participating and being very active during the Course.

10.2. The Director of NOWPAP MERRAC thanked IMO and the lecturers for a well-delivered training course. He also thanked the participants for being very active during the course and welcomed any future regional training activities. Finally he wished all the participants a safe journey home.

10.3 The Director of NOWPAP MERRAC and the Course Director then presented the Course Certificates to each of the participants. The certificates were prepared by MERRAC and signed by the Director of MERRAC and the Course Director on behalf of IMO.

## **11. COMMENTS ON THE COURSE FROM THE COURSE DIRECTOR AND THE LECTURERS**

11.1. The course was conducted in a cordial, relaxed and enthusiastic atmosphere which was much appreciated by all.

11.2. The course was conducted in the English language only, why the lecturers always had to consider the speed of talk they were lecturing in. It was noticed that many of the participants had to concentrate to follow the lessons. Towards the end of the day, it was noticeable that some had met their limits in concentration. On this background it is again recommended to avoid a programme that continues after 17:00, or at the latest 18:00.

11.3. The Table Top exercise conducted Friday morning worked well and should be considered for the future, as the standard exercise to be included in the Level 2 course. It was noted that the exercise needs a general review for the elimination of minor errors and an improvement of the general exercise set up.

11.4. Four external lecturers conducted this course although one of the lecturers only

provided one lecture. From the lecturers as well as the participants's point of view this number of instructors (3+) was appropriate, but should not be less. At courses where only less experienced lecturers are available it is recommended to conduct the course with at least four lecturers, as the participants tending to be bored listening too long at the same person, in particular, if the lecturer is unable to deliver a lecture with a high "entertaining" value.

11.5. It is highly recommended to use case studies as much as possible. The course is in general organized as a "one-way lecturer to participants" communication, why the use of case studies provides an excellent invitation to ask questions and provide comments. Under all circumstances, visual training materials with a lot of illustrations are highly recommended. This course again confirmed that, a video or a number of slides illustrating an issue relevant to the lesson increased the participants alertness and the participants were able to get a broader understanding of particular circumstances related to the various phases of an oil spill response operation or the issue under discussion or presented.

## **12. CONCLUSION**

12.1. The course has helped the participants from Japan, People's Republic of China, Republic of Korea and Russian Federation to a better understanding of the functions, duties and responsibilities of an On Scene Commander during the response to an oil spill.

12.2. The facilities and the support provided by the Korea Maritime Pollution Response Corporation were excellent and is highly recommended as the venue for any future regional or national training activities organized in co-operation between IMO and the Korean Authorities.

12.3. The standard Table Top exercise, developed by the IMO worked well and was much appreciated by the Participants, why it may be considered to include the exercise as a permanent element of the Level 2 Course. However, the exercise materials are in need of a review and minor improvements.

12.4. Although the status of oil spill preparedness within the countries of the NOWPAP region is considered better than in many other parts of the world, the training course illustrated that there is a need for additional training at the regional level and probably also at the national level, in order to maintain the positive developments and momentum created by the development and approval of the draft Regional Contingency Plan and the present training course.

## **13. RECOMMENDATIONS**

13.1. It is recommended that:

- IMO & MERRAC continue to support the implementation and entry into force of the draft NOWPAP Regional Oil Spill Contingency Plan in the Northwest Pacific

- region, subject to approval by the NOWPAP Intergovernmental Meeting
- IMO & MERRAC continue to support the development and implementation of national oil spill contingency plans in States of the NOWPAP Region.
  - The NOWPAP MERRAC Focal Points Meeting consider and approve the plan to re-organize:
    - NOWPAP Regional OPRC Training Course (IMO Level 2 Course) (*in Japan*) during the late half of 2003



Photo : Participants to the NOWPAP Regional OPRC Training Course (IMO Level 2 Course) (Incheon, Republic of Korea, 28 October – 01 November 2002)

## **ANNEX I**

### **List of Participants for the NOWPAP Regional OPRC Training Course (IMO Level 2 Course) (Incheon, Korea, 28 October - 1 November 2002)**

#### **Japan**

##### **Cdr. Kiyoshi OONE**

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**ANNEX 2**



**IMO OPRC MODEL TRAINING COURSE, LEVEL 2**

RESPONSE TO OIL SPILLS FOR SUPERVISORS AND ON-SCENE COMMANDERS

28 OCTOBER to 1 NOVEMBER 2002,  
INCHEON, REPUBLIC OF KOREA

<b>LECTURERS:</b>		
<b>Dr. Tosh Moller</b>	International Tanker Owners Pollution Federation, London, U.K.	ITOPF
<b>Mr Richard Tatner</b>	Oil Spill Response Limited, Southampton, U.K.	OSRL
<b>Mr. Joe Nichols</b>	International Oil Pollution Compensation Fund, London, U.K.	IOPC
<b>Mr. John Ostergaard</b>	International Maritime Organization, London, U.K.	IMO

**COURSE PROGRAMME**

<b>Monday</b>	<b>21 October 2002</b>	
09:00-09:30 09:30-10:00	Registration of participants Opening Ceremony - Director of NOWPAP MERRAC - Representative of Korea National Maritime Police Agency - Representative of Korea Marine Pollution Response Corporation - International Maritime Organization.	MERRAC
10:00-10:30	<i>Break/Coffee</i>	
10:30-11:30	Course introduction (1) and <i>Overview of spill response (2)</i> <i>Video: Planning and Operations</i>	IMO
11:30-12:30	Oil spill behaviour, fate and effects (4)	ITOPF
12:30-14:00	<i>Lunch</i>	
14:00-15:00	Operations planning (6)	OSRL

15:00-16:00	Spill Assessment (5)	ITOPF
16:00-16:30	<i>Break/Coffee</i>	
16:30-17:30	Containment, protection and recovery of oil (7) - In-Situ Burning - Bioremediation - Absorbents	<i>OSRL</i>
17:30	<i>End of day one,</i>	
<b>Tuesday 29</b>	<b>October 2002</b>	
08:30-08:45	Course review	IMO
08:45-09:30	Containment, protection and recovery of oil (7) Continued. - In-Situ Burning - Bioremediation - Absorbents	<i>OSRL</i>
09:30-10:30	Use of dispersants	ITOPF
10:30-11:00	<i>Break/Coffee</i>	
11:00-12:30	Shoreline clean-up I (10)	ITOPF
12:30-14:00	<i>Lunch</i>	
14:00-16:00	Contingency Planning, Response Management and Organisation (3) - National Level, Continued - Regional Level <i>Video: Live exercise</i>	IMO
15:00-16:30	<i>Break/Coffee</i>	
16:30-17:30	Site Safety (11)	OSRL
17:30	<i>End of day 2</i>	
<b>Wednesday</b>	<b>30 October 2002</b>	

08:30-08:45	Course review	IMO
08:45-10:30	Transfer, storage and disposal (12)	ITOPF
10:30-11:00	<i>Break/Coffee</i>	
11:00-12:00	Liability, Claims and Compensation	IOPC
12:00-13:00	Evidence gathering and documentation (14)	IOPC
13:00-14:30	<i>Lunch</i>	
14:30-16:00	Command, control, communication and information (15)	OSRL
16:00-16:30	<i>Break/Coffee</i>	
16:30-17:30	Media relations	IMO
17:30	<i>End of day 3</i>	
<b>Thursday</b>	<b>31 October 2002</b>	
08:30-08:45	Course review	IMO
08:45-10:30	Termination of response (17)	ITOPF
10:30-11:00	<i>Break/Coffee</i>	
11:00-12:00	Post incident briefing (18)	IMO
12:00-13:30	<i>Lunch</i>	

13:30-17:30	<b>Field trip:</b> Special programme organized by the host Organization/Government	MERRAC
17:30	<i>End of day 4</i>	
<b>Friday</b>	<b>1 November 2002</b>	
08:30-08:45	Course review	IMO
08:45-10:30	Simulation Exercise: Part I	<i>All</i>
10:30-11:00	<i>Break/Coffee</i>	
11:00-12:30	Simulation Exercise: Part II Exercise debriefing	<i>All</i>
12:30-14:00	<i>Lunch</i>	
14:00-14:30	Course review and evaluation	<i>All</i>
14:30-15:30	<b>Course Certificates,</b> Course closure: - IMO; - NOWPAP MERRAC - Representatives of Government of Republic of Korea and KMPRC	All
15:30	<b>End of Course</b>	

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