

NOWPAP MERRAC

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



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Report of the 19th NOWPAP MERRAC Focal Points Meeting & the 11th Competent National Authorities Meeting

Jeju, Republic of Korea
31 May - 3 June 2016

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**THE NINETEENTH NOWPAP MERRAC FOCAL POINTS MEETING &
THE ELEVENTH COMPETENT NATIONAL AUTHORITIES MEETING
FOR NOWPAP REGIONAL OIL AND HNS SPILL CONTINGENCY PLAN**

(Jeju, Republic of Korea, 31 May - 3 June 2016)

REPORT OF THE MEETING

Background

1. The Action Plan for the Protection, Management and Development of the Marine and Coastal Environment of the Northwest Pacific Region (NOWPAP) and three Resolutions were adopted in September 1994 at the First Intergovernmental Meeting (IGM) by the NOWPAP members, namely People's Republic of China, Japan, Republic of Korea, and Russian Federation (hereinafter referred to as China, Japan, Korea and Russia). In order to implement NOWPAP activities related to development of effective measures for regional cooperation in marine pollution preparedness and response, it was recommended that a regional Forum be created under the NOWPAP framework.
2. In March 2000, the Marine Environmental Emergency Preparedness and Response Regional Activity Centre (MERRAC) was established in Daejeon, Korea. Based on the decision of the fourth Forum Meeting, the name of the Forum has been changed to "NOWPAP MERRAC Focal Points Meeting (FPM)" and MERRAC is serving as a secretariat for the meeting.
3. The eighth NOWPAP IGM (2003) adopted the NOWPAP Regional Oil Spill Contingency Plan (hereinafter referred to as the Plan) as technical and operational guidelines for regional cooperation in cases of oil spill emergencies in the NOWPAP region. The MOU on the regional cooperation regarding preparedness and response to oil spills was signed in 2004 by ministers of the NOWPAP members and the Plan became operational.
4. The seventh MERRAC FPM (2004) decided to organize "Competent National Authorities (CNA) Meeting for the NOWPAP RCP" once a year, in conjunction with the MERRAC FPM, in order to discuss the issues related to the Plan. Since 2004, MERRAC has been also organizing Expert Meetings to discuss and review, at a technical level, various topics related to MERRAC activities.
5. The tenth NOWPAP IGM (2005) approved the expansion of the geographical coverage of the Plan as well as new MERRAC activities including chemical spills, marine based pollution (MARPOL and OPRC related with IMO), marine litter (with other RACs) during 2006/2007 biennium and ballast water and alien invasive species (with Globallast II), International Maritime Organization (IMO) conventions, and liability and compensation at a later stage.
6. Based upon the decision of the tenth NOWPAP IGM, the ninth MERRAC FPM (2006) agreed

to amend relevant parts of the Plan in order to cover the HNS (hazardous and noxious substances). The thirteenth NOWPAP IGM (2008) adopted the Resolution on the NOWPAP Oil and HNS Spill Regional Contingency Plan (RCP), and the revised Plan came into effect.

7. The twentieth NOWPAP IGM (2015) approved the work plan and budget for MERRAC activities for the 2016/2017 biennium agreed by the eighteenth MERRAC FPM and decided to allocate USD 146,000 including USD 6,000 for the MERRAC activities within the NOWPAP RAP MALI (Regional Action Plan on Marine Litter).

8. Based upon the agreement of the eighteenth NOWPAP MERRAC FPM and the tenth CNA Meeting, the nineteenth NOWPAP MERRAC FPM and the eleventh CNA Meeting were held from 31 May to 3 June 2016 in Jeju island, Republic of Korea, including a field trip to the Seogwipo branch of KCG in the afternoon of 3 June 2016. The list of participants of the meeting is attached in **Annex I**.

Agenda item 1. Opening of the meeting

9. The meeting was opened at 10:00 a.m. on 31 May 2016 by Dr. Seong-Gil KANG, the Director of MERRAC. Welcoming all participants, he emphasized that the meetings will provide another important platform for the members to discuss important issues including progress of the MERRAC activities and also to share and exchange information on matters related to marine pollution preparedness and response in the NOWPAP region.

10. Mr. Chunchang ZHANG, the Deputy Director of China Maritime Safety Administration, expressed his appreciation to the MERRAC secretariat for organizing the meetings. He also explained that the Tianjin incident which occurred in China in 2015 resulted in 165 casualties and emphasized that it is important to continue to make efforts to reduce marine environmental incidents in the NOWPAP region. He also stated that the China MSA will continue to contribute to the MERRAC activities and wish to keep close relationship with other member states.

11. Dr. Natalia KUTAEVA, the Counselor to the Director of Marine Rescue Service of Rosmorrechflot (MRS) of the Russian Federation, expressed appreciation to the MERRAC Secretariat for organizing the meetings. By emphasizing the importance of the cooperative activities of MERRAC, she stated that MERRAC, among the four NOWPAP Regional Activity Centers (RACs), particularly deals with very practical matters on oil and HNS spill preparedness and response in the NOWPAP region. She also wished the meetings to achieve fruitful results.

12. Mr. Ryoji HAYASHI, the Director of International Marine Pollution Prevention of Marine Environment Protection and Disaster Prevention Division, Japan Coast Guard, expressed his sincere appreciation to the MERRAC Secretariat for organizing the meetings. He also thanked all countries

including the NOWPAP members for having expressed their condolences and provided supports to the victims of the earthquake which happened in last April in Japan. By emphasizing that disasters can happen anytime and without notice, he continued stating that the last activation of the NOWPAP Regional Oil and HNS Spill Contingency Plan (RCP) was during the Hebei Spirit incident and since then there was no large oil spill incident in the NOWPAP region but oil spill incidents occur when it is least expected. He also wished the meetings to achieve successful results.

13. Mr. Young YOU, the Director of Division of Marine Pollution Response Planning, Marine Pollution Response Bureau, Korea Coast Guard, Ministry of Public Safety & Security of the Republic of Korea, warmly welcomed all the participants of the meetings to Korea. He also expressed his sincere gratitude to the MERRAC Secretariat for organizing the meetings and stated that they look forward to achieving fruitful results during the meetings.

14. Dr. Alexander TKALIN, the NOWPAP Coordinator, stressed that MERRAC is facing both internal and external challenges. External challenges are 1) the transition to UMOJA system which resulted in delays in transferring budget to the RACs including MERRAC and; 2) restructuring of NOWPAP RCU. He also explained that the internal challenges are 1) big volume of the MERRAC FPM documents; 2) long duration of the MERRAC FPMs; and 3) postponement of decision-makings during the MERRAC FPMs which delays the MERRAC activities. He also emphasized the importance of cooperation between the NOWPAP RACs and wished the meetings to be successful.

15. Mr. James PAW, IMO, informed the meeting that the promotion of sustainable shipping and sustainable maritime development are amongst IMO's major priorities. He stated that these stem from the adoption of the 2030 Agenda for Sustainable Development and the Paris Agreement under the United Nations Framework Convention on Climate Change of which IMO has a major role to play, as well, the Organization has focused its efforts addressing safety issues such as unsafe and mixed migration by sea, domestic ferry safety and the smooth implementation of the Mandatory Audit Scheme aside from greenhouse gas emissions from international shipping, the review of the Sulphur regulation and the implementation of the Ballast Water Management and Hong Kong Conventions.

16. The representatives from CEARAC (Mr. Takafumi YOSHIDA) and POMRAC (Dr. Svetlana KOZHENKOVA) were invited to give their opening remarks. While emphasizing the importance of cooperation between the NOWPAP RACs, representative of POMRAC explained the meeting about launch of their new project on EcoQOs in which MERRAC will also be partly participating.

17. The observers of the meetings were also invited to introduce themselves. Mr. Joselito GUEVARRA, the Project manager of IPIECA, expressed his appreciation to the MERRAC secretariat for kind invitation and emphasized that IPIECA is always willing to support the activities of the NOWPAP RACs. Ms. Ju Yueng HAM of KOEM and Mr. Andy WONG of OSRL wished the meetings to achieve fruitful results.

Agenda item 2. Organization of the meeting

18. In accordance with the Terms of Reference of the NOWPAP MERRAC Focal Points Meeting, the participants were invited to elect a Chairperson and a Rapporteur. The meeting unanimously agreed to elect the following officers:

Chairperson: Dr. Natalia KUTAEVA, Counselor to the Director of Marine Rescue Service of Rosmorrechflot (MRS) of the Russian Federation

Rapporteur: Mr. Peng GUO, Staff of Department of Dangerous Cargo Control and Pollution Prevention, Shandong Maritime Safety Administration of People's Republic of China

19. The meeting agreed to apply the rules of procedure in line with the provisions in the Terms of Reference of the NOWPAP MERRAC Focal Points Meeting. The meeting also agreed that English will be the working language and all decisions are made in consensus.

20. The Director of MERRAC presented the list of documents (**Annex II**). In response to the comment made by Dr. Tkalin, the MERRAC secretariat explained why some of the annexes of the meeting documents have not been uploaded on the website before the meetings, which were mainly late submission of the documents and delays in finalizing the outputs due to different reasons. The MERRAC secretariat stated that the final outputs of the activities will be presented during the meetings, in detail.

Agenda item 3. Adoption of the agenda

21. The Director of MERRAC introduced the Provisional Agenda (UNEP/IMO/NOWPAP/MERRAC/FPM 19/1) and the Annotated Provisional Agenda (UNEP/IMO/NOWPAP/MERRAC/FPM 19/2).

22. The meeting agreed to move the reporting of the detailed plan of the 6th NOWPAP DELTA exercise (UNEP/IMO/NOWPAP/MERRAC/FPM 19/15 Annex 3) to Thursday afternoon upon the request of the delegation of Korea.

23. The meeting adopted the agenda as shown in **Annex III**.

The Nineteenth NOWPAP MERRAC Focal Points Meeting

Agenda item 4. Overview of the progress made during the intersessional period after the Eighteenth NOWPAP MERRAC Focal Points Meeting

24. Dr. TKALIN (RCU) reported the progress of the entire NOWPAP activities made during the intersessional period (UNEP/IMO/NOWPAP/MERRAC/FPM 19/3) including the RAP MALI activities and restructuring of the NOWPAP RCU.

25. The Director of MERRAC kindly requested Dr. TKALIN to deliver the decisions of the 20th NOWPAP IGM made on MERRAC activities and in response, Dr. TKALIN briefly explained that the IGM agreed that the MERRAC activities will focus on oil and HNS issues only. He continued explaining that CEARAC also has problems with their FPs but is continuing to implement new activities on biodiversity. He emphasized that MERRAC's work scope needs to be more flexible in order to continue to be more relevant and useful for the NOWPAP members.

26. Recalling the decisions of the 20th NOWPAP IGM, Dr. KUTAEVA (Russia) asked for clarification on the decision of the 20th NOWPAP IGM concerning the Russian proposal on 'Minimum Response Requirements for Oil Spills at the Offshore Units in the NOWPAP region'. As for this issue, the Director of MERRAC explained that the meeting could not reach consensus to launch the project as a new MERRAC specific project and stated that in order to make compromise on the technical issues, the meeting needs to consider how to launch and implement the project under the Agenda item 9.

27. Mr. PAW (IMO) introduced the IMO's work on marine pollution prevention, preparedness and response, based on the outcome of the third session of the Sub-Committee on Pollution Prevention and Response (PPR 3) and 69th session of Marine Environment Protection Committee (UNEP/IMO/NOWPAP/MERRAC/FPM 19/4). Commenting on the activities of IMO, Dr. KUTAEVA (Russia) stated that the number of member states to the OPRC-HNS Protocol is relatively too low compared to the OPRC-HNS Convention. She informed the meeting that Russia is in the process of joining the Protocol.

28. The Director of MERRAC was invited to report on the activities of MERRAC implemented during the intersessional period after the 18th MERRAC FPM (UNEP/IMO/NOWPAP/MERRAC/FPM 19/5) and expenditure of MERRAC for the 2014/2015 biennium (UNEP/IMO/NOWPAP/MERRAC/FPM 19/6).

29. Dr. Hyun-Kue CHOI, representative of Korea, expressed thanks to the MERRAC secretariat for their efforts to implement the activities. He also encouraged the MERRAC secretariat to more

actively participate in the activities of IMO especially in development of IMO manuals on oil and HNS spill response, and also to share recent activities and achievements of MERRAC at the IMO PPR, if possible. He also stated that the MERRAC activities cannot be implemented only within the NOWPAP trust fund and there are in-kind contributions from the member states. Subsequently he kindly asked the MERRAC secretariat to mention such contributions in the NOWPAP IGM reports.

30. Mr. ZHANG (China) expressed thanks to all NOWPAP members' for contributing to the MERRAC activities. In addition, he asked the MERRAC secretariat to collect and share information on in-kind contribution provided from the NOWPAP member including conduction of the NOWPAP DELTA exercise and organization of the MERRAC expert meeting etc.

31. Responding to the comments made by Korea and China, the Director of MERRAC fully agreed that the MERRAC activities would not have been successfully implemented without in-kind contribution from the members and stated that the information on in-kind contributions will be shared in the future.

Agenda item 5. Review of the progress made for each task agreed at the Eighteenth NOWPAP MERRAC Focal Points Meeting, and identification of future work

32. The meeting reviewed the progress made in the routine tasks and specific projects after the 18th MERRAC FPM and identified the future activities to be carried under each task and project.

5.1. Routine Tasks

Focal Points

33. Mr. Bo-Sik KANG, Consultant of MERRAC, presented the document on the Focal Points (UNEP/IMO/NOWPAP/MERRAC/FPM 19/7). As per decisions of the 18th MERRAC FPM and the 10th CNA Meeting, MERRAC continued updating the list of the Focal Points and he informed that all NOWPAP members submitted their updated lists of the Focal Points and he informed that the Focal Points of Japan has been replaced as follows:

- from Mr. Tomoyuki ISHIZUKA to Mr. Nobuhisa KANEKO (Japan)

Information System

34. Mr. KANG (MERRAC) presented the updated Information System (UNEP/IMO/NOWPAP/MERRAC/FPM 19/8). He reported that all NOWPAP members submitted the updated lists of

response equipment, institutions and experts in the field of marine pollution preparedness and response. The meeting agreed to continue to update the information as a routine task of MERRAC.

Reports on Oil and HNS Pollution Incidents

35. Mr. KANG (MERRAC) presented the updated list of oil and HNS pollution incidents (UNEP/IMO/NOWPAP/MERRAC/FPM 19/9). He informed the meeting that during the intersessional period, 5 oil spill and 1 HNS spill incidents occurred in the NOWPAP region.

36. The meeting kindly requested the NOWPAP members to promptly exchange information on oil and HNS spills and report it to the MERRAC secretariat through the POLREP system for active co-operation among the members and also asked the MERRAC secretariat to continuously maintain and update the list of oil and HNS spill accidents in the NOWPAP region as a routine task.

5.2. The 2015 NOWPAP MERRAC Expert Meeting

37. Ms. Yoon-Young BACK, Consultant of MERRAC, briefly reported on the background and organization of the 2015 NOWPAP MERRAC Expert Meeting which was held in Vladivostok from 20-22 October 2015 (UNEP/IMO/NOWPAP/MERRAC/FPM 19/10).

38. Subsequently, Dr. KUTAEVA (Russia) submitted report on the results of the 2015 NOWPAP MERRAC Expert Meeting including summary and outcomes of the three informal group sessions and the recommended potential tasks to be implemented in the NOWPAP region.

39. Mr. GUEVARRA (IPIECA) stated that IPIECA has recently embarked a new project on “global wildlife response system”. He also commented that IPIECA will be interested to know the related activities carried out in the NOWPAP region and to provide assistance if needed.

40. The meeting agreed to discuss more on the recommended activities of MERRAC on oiled wildlife response under the agenda 5.3.

5.3. Specific Projects

41. Ms. Jung-Hyun LIM, Consultant of MERRAC, reported on the general progress of the specific projects (UNEP/IMO/NOWPAP/MERRAC/FPM 19/11).

42. A consultant of MERRAC or expert for each specific project presented the results of the following projects which were carried out during the intersessional period:

- Update of DB on oil and HNS spill response equipment and experts

- Online pollution reporting system
- Risk assessment of oil spill incident: Likelihood analysis

43. Following the presentations, the meeting discussed the achievements and/or recommendations emanated from these projects and identified the future works. The main conclusions of the discussions for each specific project are summarized as follows:

Update of DB on oil and HNS spill response equipment and experts

44. Ms. LIM (MERRAC) presented the final draft format of DB on oil and HNS spill response equipment and experts which were standardized based upon the samples of the IMO guidance for International Offers of Assistance (IOA) and also introduced the demo version of the standardized DB system (Annex 1 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/11).

45. Mr. Xudong CONG (China) commented that the format needs to be slightly modified including the main business column on information on experts.

46. Mr. MARUYAMA (Japan) suggested that the draft format for equipment and type of personnel, can be unified in accordance with the IOA format.

47. Mr. ZHANG (China) mentioned that the guidance of IMO is useful but changing of the existing DB to a new format should be carefully considered and also emphasized that inputs of DB into a new format is not an easy work.

48. At the meeting, MERRAC proposed to update of DB based on the new format under the routine task and kindly asked the NOWPAP members to provide inputs to the new format.

49. The meeting agreed to complete this project as it is with modifications along with comments made during the meeting, expressing that the DB should be continuously updated as a MERRAC routine task.

Online pollution reporting system

50. Ms. BACK (MERRAC) introduced the final draft version of online pollution reporting system. She gave a demonstration on how the online system functions and also explained about the concerns raised on the safety of the system at the 18th MERRAC FPM (Annex 2 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/11). Following the demonstration, the meeting noted that the developed online system will be practical when marine pollution incidents occur during the holidays or weekends.

51. The members expressed thanks to the MERRAC secretariat for making efforts in developing the system and decided to finalize the project. The meeting decided to try the new system during the 18th BRAVO exercise led by Japan in parallel with the existing communication method.

Risk assessment of oil spill incident: Likelihood analysis

52. Dr. Choong-Ki KIM, Senior researcher of Korea Environment Institute (KEI) presented the final results of the project on 'Risk Assessment of Oil Spill Incident: Likelihood Analysis' (Annex 3 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/11), which had been implemented as one of the MERRAC specific projects for the 2014/2015 biennium.

53. After the presentation, the participants of the meeting exchanged views and comments on the final results of the project. Dr. ZHURAVEL (Russia) commented that data which are collected and received during the project are very useful for further investigation. Recent results regarding no (cor)relation found between shipping traffic and oil/ HNS spills likelihood within the NOWPAP region have to be considered as intermediary, either caused by misinterpretation and data treatment. Dr. ZHURAVEL proposed to assimilate the collected GIS data further in the NOWPAP MERRAC projects for the 2016/2017 biennium and continue the spill likelihood assessment on expert level and within communication groups.

54. The meeting decided to conclude the project and circulate the draft report to the MERRAC FPs for their review within a month. The final publication will be made following the guidance on the quality of NOWPAP technical reports.

New MERRAC Specific Projects for the 2016/2017 biennium

55. Concerning the new MERRAC specific projects for the 2016/2017 biennium, two detailed workplans and one draft proposal were suggested by MERRAC as below (Annex 4, 5 and 6 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/11).

56. Based upon the proposals, the participants of the meeting had in depth discussions on the workplan and budget for projects including title of the projects, scope of work, length of the project period (until end of 2017) and agreed to implement the projects according to the finally revised workplan of each project as listed in **Annex VI**.

<Revised MERRAC specific projects>

- Development of MERRAC Information System based on the Web GIS (**Annex VI (a)**)
- Development of information sharing platform on oil and HNS spills in the NOWPAP region (**Annex VI (b)**)

- Development of a technical report on oiled wildlife (mainly birds and marine mammals) response in the NOWPAP region (**Annex VI (c)**)

57. Mr. ZHANG (China) suggested that since the first and second specific projects are both information systems, it will be better to combine them into one information system with two or more modules, in the near future.

58. Mr. PAW (IMO) gave an example of IMO GISIS and explained that different modules (i.e. port reception facilities, risk assessment, treaties and national contact points etc.) are operated within one single system therefore combining the two projects could also be considered.

59. After lengthy discussions, the meeting decided that considering that the proposals of the projects have been considered during the last MERRAC FPM and they have been approved by the 20th NOWPAP IGM, the two projects can first be implemented separately and the developed systems might be combined into one, at a later stage.

5.4. Sea-based marine litter activities

60. Ms. BACK (MERRAC) reported on the MERRAC activities carried out during the intersessional period under the RAP MALI implementation (UNEP/IMO/NOWPAP/MERRAC/FPM 19/12).

61. She informed the meeting that the draft regional report on 'Understanding of Floating Marine Litter Distribution and Impacts in the NOWPAP Region' has been developed based on the submitted national reports but with some delay due to difficulties in collecting the national data. Regarding the MERRAC RAP MALI activities for the 2016/2017 biennium, she presented to the meeting the detailed workplan of the project on 'Review and Analysis of Existing Floating Marine Litter Prediction Models in the NOWPAP Region' which has been approved by the 20th NOWPAP IGM.

62. Ms. Yukari FUJIOKA, representative of Japan, asked questions on implementation plan of the project for the 2016/2017 biennium including the roles of the leading expert and MERRAC secretariat, and the difference between the two floating marine litter projects carried during the 2014/2015 biennium and 2016/2017 biennium.

63. In response, Ms. BACK explained that the leading expert will prepare the summary report with supports from the MERRAC secretariat and based on the reports submitted by the nominated national experts. She also explained that the two projects on floating marine litter are linked: the first project on floating marine litter aims to understand the distribution and impacts of floating marine litter in the NOWPAP region and predict possible trajectory of the floating marine litter in the NOWPAP region by analyzing the major ocean currents in the NOWPAP region, whereas the second project

aims to identify the development status of the floating marine litter prediction systems in the NOWPAP region, to understand and identify the trajectory of floating marine litter in the NOWPAP region.

64. The meeting agreed to finalize the project on 'Understanding of Floating Marine Litter Distribution and Impacts in the NOWPAP Region' by the end of August 2016 and publish the report following the guidance on the quality of NOWPAP technical reports, also to and continue to implement the new project on floating marine litter and submit draft summary report to the next MERRAC FPM.

Agenda item 6. Issues related to the NOWPAP Regional Oil and HNS Spill Contingency Plan including its Annexes

65. As there was no submission of new proposal for revision and/or amendment of the NOWPAP RCP, the meeting moved straight to the next issue which was the proposal on establishment of a procedure for exchange of oil sample for transboundary marine pollution incidents, made by Korea at the 18th MERRAC FPM.

66. Based upon the decision of the 18th MERRAC FPM, Ms. BACK (MERRAC) reported a summary of information collected from other international/ national guidelines such as 'Guidelines for the Exchange of Oil Samples/Results between countries, and on Oil Spill Identification' (Bonn Agreement Counter-Pollution Manual) and 'Oil Sample Handling and Transmittal Guide' (US). She also presented the draft outline of the general framework of the oil sample exchange procedure for transboundary marine pollution incidents in the NOWPAP Region which includes the issues which the meeting needs to consider before deciding to establish such procedure for exchange of oil sample for transboundary marine pollution incidents among the NOWPAP members and also the draft future workplan suggested by the MERRAC secretariat (Annex 1 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/14).

67. Upon the invitation of Chairperson, Mr. Eung Ki SEO (Korea) demonstrated their national oil sampling techniques, and Mr. GUO (China) and Mr. Kenichiro MARUYAMA (Japan) also explained their national oil sampling techniques respectively.

68. It was pointed out that the purpose of the guidelines should be to encourage the members to cooperate for exchange of oil samples i.e. to follow the administrative procedure when exchanging oil samples between the NOWPAP members.

69. Mr. ZHANG (China) suggested that the project should be launched with information collection as the first step. He also stated that it is premature to touch the issue of quality assurance (QA).

70. After lengthy discussion and exchange of views, the meeting decided to establish a

correspondence group to carry out activity during the intersessional period and it was decided that Korea and Japan will lead the correspondence group and present a draft TOR to the meeting, to further discuss the matter under the agenda 9.

The Eleventh Competent National Authorities Meeting for NOWPAP Regional Oil and HNS Spill Contingency Plan (Agenda items 7 – 8)

Agenda item 7. Report and discussion on the NOWPAP training and exercises carried out during the last intersessional period and to be held in the near future

71. Mr. Peng GUO (China) reported the outcomes of the 16th NOWPAP BRAVO exercise which was conducted on 27 November 2015 (Annex 1 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/15). It was pointed out that most of the e-mails were punctually transmitted.

72. Dr. KUTAEVA (Russia) reported on the results of the 17th NOWPAP BRAVO exercise organized by Russia on 18 May 2016 (Annex 2 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/15). She stated that the exercise was conducted smoothly without any troubles and within the allocated time frame. While appreciating the results of the exercise, the delegation of Korea commented that the exercise scenario was the same as the 14th BRAVO exercise conducted in 2014.

73. In order to improve communication system among the NOWPAP members, the meeting decided to conduct the next BRAVO exercise to be led by Japan as a blind BRAVO exercise without pre-notice of the scenario on exact date (maximum 1 month in advance). The exercise will be implemented using the new online pollution reporting system in parallel with the existing communication method. The Russian delegation also proposed to conduct the BRAVO exercises once per eighth months or per year as the BRAVO exercise is now well-developed and practiced. The meeting decided that this matter will be re-considered at the next MERRAC FPM upon the results of the BRAVO exercise to be led by Japan.

74. The MERRAC FPs were kindly requested to nominate the contact persons who will be in charge of the online communication. The results of the exercise will be discussed, including identification of future modification to improve the online pollution reporting system.

75. Mr. GUO (China) presented the plan of the organization of the 6th NOWPAP DELTA exercise which will be conducted in coastal sea area of Weihai, Shandong Province, China, on 14 July 2016 and led by China and Korea (Annex 3 of UNEP/IMO/NOWPAP/MERRAC/FPM 19/15).

76. Dr. ZHURAVEL (Russia) made a proposal to test a tracking buoy (HAB 80) as a cheap tool to track oil spill and compare the predicted (if prediction will be made) and observed drift of oil on water

surface during the exercise. In reply, China thanked for suggestion and stated that other tracking methods have been already considered and there is not enough time for new arrangement for the upcoming exercise. China welcomed Russia to participate in the exhibition which will be held back-to-back with the exercise for further discussion on the matter.

77. Commenting on the presentation made by China on the organization of the 6th NOWPAP DELTA exercise, the Director of MERRAC stated that the MERRAC secretariat would like to participate in the exercise and kindly asked China to provide additional logistic information.

78. Mr. Chang Woo HA, representative of Korea, thanked China for hosting the exercise and the MERRAC secretariat for their smooth facilitation. He also stated that Korea is willing to fully co-operate with China for a successful conduction of the 6th NOWPAP DELTA exercise and support China by dispatching one oil spill response vessel. In addition, he kindly requested China to send more detailed information including schedule for the special events.

79. The meeting wished the exercise to be conducted successfully and requested China to share the experience at the next MERRAC FPM.

Agenda item 8. Exchange of latest information on marine pollution preparedness and response in the NOWPAP members (presentations by the representatives of CNAs)

80. Based on the invitation of the Chairperson, Dr. CHOI (Korea) gave valuable presentations on: 1) Case study of ocean tango vessel oil spill including the response activities, lesson learning, etc, 2) Outcomes of emergency response working group of the 2016 NPCGF Expert meeting, 3) Information of HNS response vessel construction, 4) Draft plan of the 2017 NOWPAP MERRAC Expert meeting. Upon his presentations, it was pointed out that the NPCGF Forum and the MERRAC activities should be harmonized.

81. Mr. MARUYAMA (Japan) introduced the technical assistance of JCG provided on oil spill response to Sri Lanka. He informed that JCG decided to dispatch a National Strike Team (NST) of JCG to provide appropriate technical supports for 3 years (Sep 2014 – Dec 2017), to expand co-operation between Japan Coast Guard and Sri Lanka Coast Guard for better oil spill response.

82. Mr. GUO (China) reported on the recent progress made on China's oil spill response capability building which includes national plan for the response capability building and recent amendment of the technical standards.

83. Dr. KUTAEVA (Russia) reported the latest oil spill incident in the NOWPAP area of Russia.

She briefly presented the oil spill response operation during the emergency tanker NADEZHDA (28 Nov 2015, Port Nevelsk), as well as shoreline clean-up, and ecological impact etc. and drew suggestions to improve the national organization for oil spill rescue operations. She also gave a presentation on the completion of reorganization of the structure of MRC as well as exercises which were conducted by Primorye and Sakhalin branches of MRS in 2015.

84. Mr. WONG (OSRL) gave a presentation on the general activities of OSRL on oil spill response and preparedness and introduced the latest exercises and trainings. Mr. GUEVARRA (IPIECA) also presented the IPIECA's latest activities on oil spill preparedness, prevention and response and explained successful partnerships of IPIECA with other organizations and industries.

The Nineteenth NOWPAP MERRAC Focal Points Meeting

Agenda item 9. Workplan and budget for the 2016/2017 biennium and other future activities

85. The Director of MERRAC presented the workplan and budget for the 2016/2017 biennium (UNEP/IMO/NOWPAP/MERRAC/FPM 19/17) approved by the 20th NOWPAP IGM. The total budget of MERRAC activities for the 2016/2017 biennium was allocated USD 146,000 including USD 6,000 for the RAP MALI activities of MERRAC.

86. The meeting agreed with the workplan and budget for 2016-2017 as attached in **Annex IV** and **V**.

87. Subsequently, the Korean delegation was invited to present the detailed plan for organization of the 2017 MERRAC Expert Meeting, to be hosted by Korea in October or November 2017. It was suggested that the Expert Meeting will be organized in a form of an international conference, commemorating the 10 years anniversary of the Hebei Spirit incident. It was also suggested that various organizations in the NOWPAP members, IMO and other international organizations might be invited to share experiences and activities carried during the last decade.

88. The meeting suggested Korea to arrange the dates of the meeting well in advance and it was also suggested to conduct the meeting back-to-back with other international meetings. In response, Korea stated that a more detailed plan of the meeting will be shared with the NOWPAP members at the next MERRAC FPM.

89. Next, Dr. ZHURAVEL (Russia) presented in detail the proposal on "Minimum Response Requirement for Oil Spills at the Offshore Units" including the purpose, potential benefits and outcomes of the project.

90. Mr. ZHANG (China) commented that the presented barrier concepts seem very interesting and it might also be applied to the spills from vessels. However, he stated that China MSA, in terms the organization's jurisdiction and responsibility, do not deal with the offshore units and it might be a little premature to implement the project as a MERRAC specific project.

91. Even after a lengthy discussion, the meeting could not reach consensus to implement the project as a MERRAC specific project or routine task, and suggested to discuss this matter during the intersessional period by email communication with leading role by the MERRAC secretariat, to try to bring positions close together. In this regards, the Russian delegation expressed concerns about the extension and enhancement of cooperation in the framework of RCP concerning oil spill preparedness and response to pollution incident which may occur at offshore oil installations. The Russian delegation also mentioned that outcomes of such communication could be submitted to the 21st NOWPAP IGM, if necessary.

92. Regarding further work on exchange of oil samples, the meeting decided to establish a correspondence group to be led by Korea and Japan and, consequently, approved the TOR with the view to submit a report for consideration at the 20th MERRAC FPM. The approved TOR is set out at **Annex VII**.

Agenda item 10. Arrangement of intersessional work and venues and dates of the Twentieth NOWPAP MERRAC Focal Points Meeting and the Twelfth Competent National Authorities for NOWPAP Regional Oil and HNS Spill Contingency Plan

93. The Director of MERRAC presented the routine tasks and the specific projects to be implemented during the intersessional period. After discussions, the meeting rearranged the intersessional work as attached in **Annex VIII**.

94. The Director of MERRAC informed the NOWPAP members that the 20th MERRAC FPM and the 12th CNA Meeting will be held tentatively in May or June 2017, in Korea. He stated that the exact venue and dates of the meetings will be communicated by emails during the intersessional period.

Agenda item 11. Other matters

95. No matters were considered under this agenda.

Agenda item 12. Adoption of the report of the Meeting

96. The 19th MERRAC Focal Points Meeting and the 11th Competent National Authorities Meeting adopted the report of the meeting with its annexes following its presentation by the Rapporteur.

Agenda item 13. Closure of the Meeting

97. After customary exchange of courtesies, the Chairperson declared the meeting will close at 10:10 am on Friday, 3 June 2016, after having reviewed the meeting report from 8:00 am.

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Annex VIII. List of Tasks

Annex IX. List of the files in the CD-ROM

Annex I

List of Participants

Annex I. List of Participants to the Nineteenth NOWPAP MERRAC Focal Points Meeting & the Eleventh Competent National Authorities Meeting

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<Participants of the 19th NOWPAP MERRAC Focal Points Meeting & the 11th Competent National Authorities Meeting>



<Field trip to Seogwipo branch of KCG in Jeju, Republic of Korea>

Annex II

List of Documents

Annex II. List of documents for the Nineteenth MERRAC Focal Points Meeting and the Eleventh Competent National Authorities Meeting**Working Documents**

UNEP/IMO/NOWPAP/MERRAC/FPM 19/1	Provisional Agenda
UNEP/IMO/NOWPAP/MERRAC/FPM 19/2	Annotated Provisional Agenda
UNEP/IMO/NOWPAP/MERRAC/FPM 19/3	Report of the NOWPAP Regional Coordinating Unit (RCU) on the Progress in the Implementation of the Northwest Pacific Action Plan
UNEP/IMO/NOWPAP/MERRAC/FPM 19/4	Report on Activities of IMO Made After the Eighteenth MERRAC Focal Points Meeting
UNEP/IMO/NOWPAP/MERRAC/FPM 19/5	Report on MERRAC Activities Made After the Eighteenth MERRAC Focal Points Meeting
UNEP/IMO/NOWPAP/MERRAC/FPM 19/6	Report on the Annual Expenditure of MERRAC Budget for the 2014/2015 Biennium
UNEP/IMO/NOWPAP/MERRAC/FPM 19/7	Report on the Focal Points
UNEP/IMO/NOWPAP/MERRAC/FPM 19/8	Report on the Information System
UNEP/IMO/NOWPAP/MERRAC/FPM 19/9	Report on Oil and HNS Spill Incidents
UNEP/IMO/NOWPAP/MERRAC/FPM 19/10	Report on the Results of the 2015 NOWPAP MERRAC Expert Meeting
UNEP/IMO/NOWPAP/MERRAC/FPM 19/11	Progress Report on the Implementation of the MERRAC Specific Projects
UNEP/IMO/NOWPAP/MERRAC/FPM 19/12	Report of MERRAC Activities on RAP MALI

UNEP/IMO/NOWPAP/MERRAC/FPM 19/13	Discussion on Efficient Implementation of the NOWPAP Regional Oil and HNS Spill Contingency Plan
UNEP/IMO/NOWPAP/MERRAC/FPM 19/14	Procedure for Exchange of Oil Sample for Transboundary Marine Pollution Incidents
UNEP/IMO/NOWPAP/MERRAC/FPM 19/15	Report on the NOWPAP Training and Exercise
UNEP/IMO/NOWPAP/MERRAC/FPM 19/16	Latest Progress Report on the Oil and HNS Pollution Preparedness and Response in the NOWPAP Region
UNEP/IMO/NOWPAP/MERRAC/FPM 19/17	Revision of the Proposed Workplan and Budget of MERRAC Activities for the 2016/2017 Biennium
UNEP/IMO/NOWPAP/MERRAC/FPM 19/18	Draft Arrangements of the Existing Tasks and Identification of Additional Tasks for Intersessional Works (to be updated)

Reference Documents

UNEP/IMO/NOWPAP/MERRAC/FPM 19/INF1	List of Documents
UNEP/IMO/NOWPAP/MERRAC/FPM 19/INF2	Timetable
UNEP/IMO/NOWPAP/MERRAC/FPM 19/INF3	List of Participants
UNEP/IMO/NOWPAP/MERRAC/FPM 19/INF4	Logistic information
UNEP/IMO/NOWPAP/MERRAC/FPM 18/20	Report of the 18th NOWPAP MERRAC Focal Points Meeting and the 10th Competent National Authorities Meeting (Busan, 25-28 August 2015)
UNEP/NOWPAP IG. 20/12	Report of the 20th Intergovernmental Meeting of the Northwest Pacific Action Plan (Beijing, People's Republic of China, 28-30 October 2015)
UNEP/NOWPAP IG. 20/11	Resolutions of the Meeting

Annex III

Agenda

Annex III. Agenda of the Nineteenth NOWPAP MERRAC Focal Points Meeting and the Tenth Competent National Authorities Meeting

1. Opening of the meeting
2. Organization of the meeting
 - 2.1. Election of the officers
 - 2.2. Organization of work
3. Adoption of the agenda

The Nineteenth NOWPAP MERRAC Focal Points Meeting

4. Overview of the progress made during the intersessional period after the Eighteenth NOWPAP MERRAC Focal Points Meeting
 - 4.1. Report of a representative of NOWPAP RCU on the implementation of Northwest Pacific Action Plan (NOWPAP)
 - 4.2. Report of a representative of IMO on the latest activities related to marine pollution prevention, preparedness and response
 - 4.3. Report of the Director of MERRAC on the activities and the budget expenditures made during the intersessional period after the Eighteenth NOWPAP MERRAC Focal Points Meeting
5. Review of the progress made for each task agreed at the Eighteenth NOWPAP MERRAC Focal Points Meeting, and identification of future work
 - 5.1. Routine Tasks
 - Focal Points
 - Information system (equipment, institutions, experts, and performance standards)
 - Report on oil and HNS pollution incidents
 - 5.2. The 2015 NOWPAP MERRAC Expert Meeting
 - 5.3. Specific Projects
 - (Existing specific projects)
 - Update DB of oil and HNS spill response equipment and experts
 - Online pollution reporting system
 - Risk assessment of oil spill incident: Likelihood analysis

(New specific projects)

- Development of MERRAC information system based on the Web GIS
- Development of information sharing platform on oil and HNS spills in the NOWPAP region
- Oiled wildlife response

5.4. Sea-based Marine Litter activities

6. The NOWPAP Regional Oil and HNS Contingency Plan

- 6.1. Efficient implementation of the NOWPAP Regional Oil and HNS Contingency Plan including revision and/or amendment of the NOWPAP RCP and its Annexes (if exists)
- 6.2. Establishment of a procedure for exchange of oil sample for transboundary marine pollution incidents in the NOWPAP region

The Eleventh Competent National Authorities Meeting for NOWPAP Regional Oil and HNS Spill Contingency Plan

7. The NOWPAP training and exercises

- 7.1. Report of the 16th and 17th NOWPAP BRAVO Exercises
- 7.2. Future plan on NOWPAP trainings and exercises

8. Exchange of latest information on marine pollution preparedness and response in the NOWPAP members (presentation by the representatives of CNAs)

- National Contingency Plans
- Case Studies of Recent National Oil/HNS Spills
- National/Sub-regional Training and Exercises
- Others

The Nineteenth NOWPAP MERRAC Focal Points Meeting

9. Workplan and budget for the 2016/2017 biennium and other future activities

10. Arrangement of intersessional work and venues and dates of the 20th NOWPAP MERRAC FPM and the 12th CNA Meeting

11. Other Matters
12. Adoption of the report of the Meeting
13. Closure of the Meeting

Annex IV

Workplan for MERRAC Activities for the 2016/2017 Biennium

Annex IV. Workplan for MERRAC Activities for the 2016/2017 Biennium

Date	Activities	Responsible Organizations
1 st half of 2016	17th NOWPAP BRAVO exercise	Leading country (Russia), NOWPAP members, MERRAC
May or June 2016	19th NOWPAP MERRAC Focal Points Meeting and 11th Competent National Authorities Meeting	MERRAC, NOWPAP RCU, UNEP, IMO
-	Intersessional work	Leading country, MERRAC
2 nd half of 2016	18th NOWPAP BRAVO exercise	Leading country (Japan), NOWPAP members, MERRAC
July 2016	6th NOWPAP DELTA (Joint Oil Spill Exercise) regarding the marine pollution preparedness and response	Leading country (China), NOWPAP members, MERRAC, NOWPAP RCU, UNEP, IMO
1 st half of 2017	19th NOWPAP BRAVO exercise	Leading country (Korea), NOWPAP members, MERRAC
May or June 2017	20th NOWPAP MERRAC Focal Points Meeting and 12th Competent National Authorities Meeting	MERRAC, NOWPAP RCU, UNEP, IMO
-	Intersessional work	Leading country, MERRAC
2 nd half of 2017	An expert meeting on oil and HNS spill issue (exact date and venue to be determined)	Host Country (Korea), MERRAC, NOWPAP RCU, UNEP, IMO, NOWPAP members
2 nd half of 2017	20st NOWPAP BRAVO exercise	Leading country (China), NOWPAP members, MERRAC
-	Intersessional work	Leading country, MERRAC
Jan 2016 - Dec 2017	Implementation of specific projects on scientific and technical issues related to oil and HNS, including marine litter activities	Leading country, MERRAC, UNEP, IMO

Annex V

Revised Budget for MERRAC Activities for the 2016/2017 Biennium

Annex V. Revised Budget for MERRAC Activities for the 2016/2017 Biennium

Activities	Budget (US\$)		
	2016	2017	Total
1. Focal Points Meeting & CNA Meeting - Coordinate MERRAC activities - Maintain and update RCP, including relevant Annexes - Report on oil and HNS pollution incident - Update the information system - Planning the training and exercise - In case of major spill accidents, exchange the POLREP, activate the RCP and conduct Joint Oil Spill Response (JOSR)	26,000	26,000	52,000
2. Expert Meeting (to be hosted by Korea) - Technical issues on oil & HNS spill	-	24,000	24,000
3. Specific projects - Development of MERRAC Information System based on the Web GIS - Development of information sharing platform on oil and HNS spills in the NOWPAP region - Development of a technical report on oiled wildlife (mainly marine mammals and birds) response in the NOWPAP region	10,000		40,000
	15,000		
	15,000		
4. Coordination with IMO/UNEP and Regional Seas - NOWPAP IGM - IMO PPR Meeting - Other Regional Activities Centers - Regional cooperation	9,000	9,000	18,000
5. Publications and other miscellaneous costs - Technical Reports - Newsletter - Maintaining Homepage	3,000	3,000	6,000
6. NOWPAP Exercises - NOWPAP BRAVO Exercises (4 times) 2016: Russia (1 st half), Japan (2 nd half) 2017*: Korea (1 st half), China (2 nd half) (to be decided at the 20 th MERRAC FPM) - NOWPAP DELTA Exercise (co-organized by China and Korea on 14 July 2016)	(In-kind)		(In-kind)
Sub-total	58,000	82,000	140,000
7. MERRAC activities on RAP MALI - Review and analysis of existing floating marine litter prediction models in the NOWPAP region	6,000		6,000
Sub-total	6,000		6,000
Total	61,000	85,000	146,000

*The frequency of the conduction of the BRAVO exercises will be decided at the 20th FPM

Annex VI

Workplan for MERRAC Specific Projects in 2016-2017

Annex VI. Workplan for MERRAC specific projects in 2016-2017

a) Development of MERRAC Information System based on the Web GIS

A. PROPOSAL OUTLINE

- 1. Project Title:** Development of MERRAC Information System based on the Web GIS
- 2. Leading country or RAC:** NOWPAP MERRAC
- 3. Participating NOWPAP members:** China, Japan, Korea and Russia
- 4. Supporting body of the Project:** NOWPAP MERRAC, DINRAC, IMO
- 5. Project period:** 2 years (2016-2017)
- 6. Total budget:** US\$ 10,000

B. PROJECT DESCRIPTION

1. Purpose of the Project

Under the routine task of MERRAC, MERRAC has continuously collected the information on lists of equipment, institutions and experts concerning marine pollution preparedness and response as well as marine pollution incidents with spillage over 10 tons in the NOWPAP region and updated it on the MERRAC website (<http://merrac.nowpap.org>).

The purpose of the project is to develop the MERRAC Information System that is operated linked with a map based on the Web GIS. A developed map will function usefully to provide information on equipment, institutions and experts near incident area, and lists of marine pollution incidents by adding geographic information on the MERRAC website. For reference, IMO and USCG are operating similar DB system, which would be used as references for this project

2. Brief description of the Project

- 1) Rearranging the Database on relevant information in DB system
 - List of response equipment owned by the NOWPAP members, including equipment type, place of stock, available number for mobilization for assistance to other country during emergency situation, etc.
 - Latest information on institutions and experts including organization, filed (or major), location, contact number, etc.
 - Lists of oil and HNS spill incidents with spillage over 10 tons in the NOWPAP region
- 2) Development of DB and visualization of relevant information on a map
 - Development of electronic Database to systemize the relevant information, referent the existing system, especially considering the existing practice of IOA of IMO.
 - Link the collected information with a map based on the Web GIS under MERRAC website
 - Set up a visible range of the DB system and relevant information based on the major port cities of each NOWPAP member
- 3) Establishment of new MERRAC Information System
 - Promptly obtain improved information on equipment, institutions, experts, and lists of marine pollution incidents when a user click a spot near incident area on a map
 - Easily and briefly find requirable information on a pop-up window

3. Implementation plan

Activities	2016				2017			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Prepare the workplan								
2. Compose Experts Group								
3. Input relevant information into the DB								
4. Develop a draft system based on the Web GIS								
5. Review the new MERRAC Information System by the FPM								
6. Finalize the project after modification along with the comments by the FPM								

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WRRL (Western Response Resource List)

[About this site...](#)

Welcome to the Western Response Resource List, an oil spill response equipment database maintained by regional equipment owners and hosted by Genwest Systems, Inc.

ALERT - The annual WRRL Users' Meeting was held on March 29, 9:30 until noon. Look for the release of WRRL 2 on or about May 1, 2016. The WRRL website will be updated with:

- A revised user interface
- A new Kind-Type convention that reflects the IMO equipment kind-type lexicon
- A new version of WRRLTrac that is compatible with the new Kind-Type convention

System Status:

- > **New WRRL participating organization, ERM Alaska added 2/23/16. Welcome aboard!**
- > **Returning WRRL participating organization, Tesoro added 1/21/16. Welcome!**

Participating Organizations: (click on name to view equipment records, click on world icon to view organization's web site)

Able Cleanup Technologies	Global Diving & Salvage	Seattle Public Utilities
Ballard Marine Construction	Guardian Industrial Services	Shell Puget Sound Refinery
Big Sky Industrial	Global Diving & Salvage	Shell Seattle Terminal
BP Cherry Point Refinery	Islands' Oil Spill Assoc.	Tesoro
BP Seattle Terminal	JTI Commercial Services	Tidewater Barge Lines
Burlington Northern Santa Fe	Kinder Morgan Harbor Island	Tidewater Environmental Services
CCSPNE	KM TransMountain Pipeline	USCG District 13
Chevron Pipe Line Co.	Lummi Nation	US Navy Region Northwest
Clean Harbors Env. Svcs.	MSRC - NW MSRC - HI	US Navy SUPSLV
Clean Rivers Cooperative	McNeil Island Corr. Ctr.	Vessels of Opportunity (VOO)
ConocoPhillips Ferndale Ref.	NRC Environmental Services	WA Dept. of Ecology
Phillips 66 Pipeline LLC	NWFF Environmental	WA Dept. of Fish & Wildlife
ERM Alaska	OR Dept. of Env. Quality	Washington State Ferries
First Strike Environmental	Olympic Pipe Line Co.	Western Canada Marine Response Corp.
Focus Wildlife International	Paramount Petroleum	Whitewater Rescue Institute

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WRRL Equipment List [Add New Equipment Record](#) | [Multi-Record Edit](#) | [< Prev](#) | [Next >](#)

Multi-record edit function: A member can only edit information for the equipment owned by that member. Only the equipment records shown in the list will be edited. There is no "Undo" button.

Guest users cannot add records.

WRRL ID	Group	WRRL ID	Org	KindType	Resource Category	Identification	Specifications	Recovery (BPD-EDRC)	Ltj. (BBL)	Boom (Feet)	People	Home Base	State	Staging	Owner ID	Contact Name	Contact Phone	Latitude	Longitude
1012	1012	WCMRC	B2	Boom	Boom - General Purpose	24' GP		0	0	2240	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1016	1016	WCMRC	B3	Boom	Boom - Shore Seal	24' Shore Seal		0	0	274.5	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1018	1018	WCMRC	B2	Boom	Boom - Air Inflate	30' Air Inflate		0	0	305	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1019	1019	WCMRC	B2	Boom	Boom - Air Inflate	30' Air Inflate		0	0	305	0	Prince	BC	Prince	Equipment	604-294-6001	54.316667	-130.3166	
1041	1041	WCMRC	SK4	Skimmer Portable	Skimmer - T-12 Disc	T-12 Disc Skimmer	2.4	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1042	1042	WCMRC	SK3	Skimmer Portable	Skimmer - T-18 Disc	T-18 Disc Skimmer	3.6	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1043	1043	WCMRC	SK3	Skimmer Portable	Skimmer - T-18 Disc	T-18 Disc Skimmer	3.6	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1049	1049	WCMRC	SK4	Skimmer Portable	Skimmer - RBS-01	RBS-01 Skimmer	4	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1050	1050	WCMRC	SK4	Skimmer Portable	Skimmer - Vertical Rope Mop	Vertical Rope Mop Skimmer	3.6	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1051	1051	WCMRC	SK4	Skimmer Portable	Skimmer - Drum Rope Mop	Drum Rope Mop Skimmer	2	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1052	1052	WCMRC	SK4	Skimmer Portable	Skimmer - Fedco Weir	Fedco Weir Skimmer	4.2	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1053	1053	WCMRC	SK4	Skimmer Portable	Skimmer - Fedco Weir	Fedco Weir Skimmer	4.2	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1054	1054	WCMRC	SK3	Skimmer Portable	Skimmer - Sala Roll Pump	Sala Roll Pump Skimmer	5	0	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1055	1130	WCMRC	SK3	Skimmer Portable	Trailer No136 - Skimmer - GT-	GT 185 Skimmer	4.2	0	0	0	0	Burnaby	BC	Trailer No136	Equipment	604-294-6001	49.3	-122.9333	
1056	1056	WCMRC	PS4	Storage	Storage - Sea Slug	25 Tonne Sea Slug	0	25	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1057	1057	WCMRC	PS4	Storage	Storage - Sea Slug	10 Tonne Sea Slug	0	10	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1058	1058	WCMRC	PS4	Storage	Storage - Sea Slug	10 Tonne Sea Slug	0	10	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1059	1059	WCMRC	PS4	Storage	Storage - Sea Slug	10 Tonne Sea Slug	0	10	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1060	1060	WCMRC	PS4	Storage	Storage - Sea Slug	5 Tonne Sea Slug	0	5	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1063	1063	WCMRC	PS4	Storage	Storage - Floating Collar	5 Tonne Floating Collar	0	5	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1064	1064	WCMRC	PS4	Storage	Storage - Floating Collar	5.7 Tonne Floating Collar	0	5.7	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1065	1065	WCMRC	PS4	Storage	Storage - Floating Collar	5.7 Tonne Floating Collar	0	5.7	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1066	1066	WCMRC	PS4	Storage	Storage - Floating Collar	5.7 Tonne Floating Collar	0	5.7	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1067	1067	WCMRC	PS4	Storage	Storage - Floating Collar	5.7 Tonne Floating Collar	0	5.7	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	
1071	1071	WCMRC	PS4	Storage	Storage - Port-a-Tank	5.7 Tonne Port-a-Tank	0	5.7	0	0	0	Burnaby	BC	Burnaby	Equipment	604-294-6001	49.3	-122.9333	

b) Development of information sharing platform on oil and HNS spills in the NOWPAP region

A. PROPOSAL OUTLINE

- 1. Project Title:** Development of information sharing platform on oil and HNS spills in the NOWPAP region
- 2. Leading country or RAC:** NOWPAP MERRAC
- 3. Participating NOWPAP members:** China, Japan, Korea and Russia
- 4. Supporting body of the Project:** NOWPAP MERRAC, IMO, etc.
- 5. Project period:** 2 years (2016-2017)
- 6. Total budget:** US\$ 15,000

B. PROJECT DESCRIPTION

1. Purpose of the Project

The NOWPAP region is especially vulnerable to marine pollution incidents due to its high shipping density along with industrial development and economic growth. Accordingly, the NOWPAP members are exposed to high risk of oil and Hazardous and Noxious Substances (HNS) pollution incidents. For efficient preparedness and response to oil and HNS spill incidents that may occur, it is necessary to share information on the latest news, response activities on oil and HNS spills, legal and policy issues, etc. among the NOWPAP members.

The purpose of the project is to establish an information sharing platform on oil and HNS spills in the NOWPAP region based upon internet network (MERRAC website). It might be useful to share the latest information and experiences on oil and HNS issues among the members and also accumulate the relevant information in the NOWPAP region.

2. Brief description of the Project

- 1) Collection of relevant information on oil and HNS issues in the NOWPAP region and its prompt release to the relevant authorities and the NOWPAP members
 - Latest news on marine pollution incidents
 - Response activities on oil and HNS spills
 - Relevant regulations and policies of each NOWPAP members
 - Recent trend of research on preparedness and response to oil and HNS spills
- 2) Development of review papers on major oil and HNS spill incidents in the NOWPAP region
 - Nominate one expert from each country, who will take charge of developing the national case study report
 - Request report on 1 or 2 oil and/or HNS spill cases by the nominated experts from each NOWPAP member
 - Contents of the review paper (case study)
 - : overview of accident, response operation, international assistance, post-incident monitoring, compensation, etc.
 - Compile the review papers from each NOWPAP members and publish as a White Book format
- 3) Establishment and management of information sharing platform (regarding how to manage this platform in the future will be discussed at next FPM)
 - Establish an information sharing platform under the MERRAC website based on internet network
 - . Weekly Update (if possible): latest news and activities in the NOWPAP region
 - . Yearly Update: White Book (a total of 4 or 6 case studies)

3. Implementation plan

Activities	2016				2017			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Prepare the workplan								
2. Sign contracts with experts of each NOWPAP member								
3. Collect relevant information from the nominated experts (e.g. latest news, response activities, legal and policy issues, etc.)								
4. Develop a draft review papers on major marine pollution incidents (to be compiled as a White Book format)								
5. Finalize review papers & establish information sharing platform (website)								

4. (Draft) Budget plan

Activities	Budget (US\$)
Sign contracts with experts of each NOWPAP member	US\$ 6,000 for the nominated experts from each NOWPAP member (US\$ 1,500/each)
Development of new platform linked on the MERRAC website	US\$ 7,000
MERRAC Secretariat (Publication, etc.)	US\$ 2,000
Total	US\$ 15,000

c) Development of a technical report on oiled wildlife (mainly marine mammals and birds) response in the NOWPAP region

A. PROPOSAL OUTLINE

- 1. Project Title:** Development of a technical report on oiled wildlife (mainly marine mammals and birds) response in the NOWPAP region
- 2. Leading country or RAC:** NOWPAP MERRAC
- 3. Participating NOWPAP members:** China, Japan, Korea, Russia
- 4. Supporting body of the Project:** IMO, IPIECA and others
- 5. Project period:** 2 years (2016-2017)
- 6. Total budget:** US\$ 15,000

B. PROJECT DESCRIPTION

1. Background

At the latest NOWPAP MERRAC Expert Meeting held in 2015, Russia, the oiled wildlife issue in the NOWPAP region was initiated and discussed for the first time. The main purpose of the workshop was to share the existing expert knowledge on response to oiled wildlife and consider the possible regional collaboration in the NOWPAP Region for better preparation and response to oiled wildlife as well as minimization and mitigation of the consequences of the oil spill for the environment. Through a variety of presentations and in-depth informal group discussions during the meeting, interests of the meeting participants in the field of oiled wildlife were increased. Accordingly, the NOWPAP Members recommended potential tasks to be implemented in the NOWPAP Region (20th NOWPAP IGM, 2015). In particular, development of a technical report on oiled wildlife response in the NOWPAP region was suggested.

2. Purpose of the Project

For efficient response and regional co-operation to oiled wildlife (mainly focusing marine mammals and birds) during major oil spills in the NOWPAP region, it is necessary to share experiences and expertise on oiled wildlife response among the NOWPAP members. The purpose of the project is to develop a technical report on the practices of oiled wildlife response, which summarize relevant information and data in the region and recommend the future activities to be made by NOWPAP members under the NOWPAP framework, in order to increase the public awareness and the responding capability regarding the oiled wildlife issue in the region.

3. Brief description of the Project

- 1) Review of the current status & collection of existing data on oiled wildlife in the region as well as other region
 - Collection of impact cases on wildlife by oil spills in the region (including the cases in other region)
 - Review the relevant response techniques for rescuing the oiled wildlife
 - Review of relevant national laws/policies and regulations, guidelines on oiled wildlife response in the region, together with those in other regions.
- 2) Analysis of challenges and/or weakness to be improved in the region, regarding the oiled wildlife response of each NOWPAP member

- management aspects including policies, response capacities, training and exercise, etc
- technical aspects including expertise, resources, and manuals for rescues/monitoring, etc

3) Recommendation for future activities to be implemented in the region

- at the national level for NOWPAP members
- at the regional level under the NOWPAP framework.

4. Implementation plan

Activities	2016				2017			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. Prepare the workplan								
2. Nomination of expert group by each NOWPAP member								
3. Collect relevant information from the nominated experts and review them								
4. Develop a draft technical report on oiled wildlife response								
5. Submit a technical report to FPM and, if necessary, revise it along with their comments								
6. Finalize the technical report								

5. (Draft) Budget plan

Activities	Budget (US\$)
Sign contracts with experts of each NOWPAP member and/or relevant organizations	US\$ 12,000 (for consultancy fee to expert groups)
MERRAC Secretariat (Publication, etc.)	US\$ 3,000
Total	US\$ 15,000

Annex VII

TOR for the Correspondence Group on Oil Sample Exchange

Annex VII. TOR for the Correspondence Group on Oil Sample Exchange**Terms of Reference
for
the Correspondence Group on the Oil Sample Exchange¹****Background:**

When a major marine pollution incident occurs in the NOWPAP region, the spilled oil can cause damage to the other members' waters and shoreline. In such case, it is important to take and exchange the oil sample within a proper procedure. In order to avoid any confusion or procrastination when exchanging oil samples between the NOWPAP members it may be important to establish an agreed procedure to ensure the validity of the collected oil samples.

The 19th MERRAC FPM agreed to establish a correspondence group to initiate the activity during intersessional period from June 2016 to the 20th MERRAC FPM (2017).

Convenor of the Correspondence Group: Dr. Hyun Kue Choi, Korea Coast Guard (with support of Japan Coast Guard)

Terms of Reference

1. The Correspondence Group (CG) will collect relevant information, to understand the existing oil sampling procedures of the NOWPAP members and other regions.
2. Based on the collected information, the CG will develop a report, which will mainly include current status, challenges and recommendations.
3. The report will be submitted to the 20th MERRAC FPM for review and to make decisions on future directions.

¹ Reference document: UNEP/IMO/NOWPAP/MERRAC/FPM 19/14

Annex VIII

List of the Tasks

Annex VIII. The List of the Tasks, and its Lead Country/Agency, Required Actions and Expected Outputs for the 2016

1. Routine Tasks carried out by MERRAC

Tasks	Lead Country / Agency	Actions	Expected Outputs
1. Regional Contingency Plan	MERRAC	<ul style="list-style-type: none"> - Maintain or update the RCP including its Annexes - Maintain the networks among the relevant Competent National Authorities for the RCP in the NOWPAP region - Carry out regional activities as required by the RCP 	<ul style="list-style-type: none"> - Regional cooperation system regarding marine pollution preparedness and response - Increased regional capacity on marine pollution preparedness and response - Efficient implementation of the RCP for practical use and assistance procedure and system - Updated Annex to the RCP
2. Focal Points Meeting and Competent National Authorities Meeting	MERRAC	<ul style="list-style-type: none"> - Coordinate and organize annual FPM and CNA meetings - Develop the provisional agenda for the meetings, including the relevant meeting documents - Review the progresses made during the inter-sessional period, and identify the follow-up activities - Carry out the follow-up activities resulting from the two meetings 	<ul style="list-style-type: none"> - Exchange of relevant information on oil & HNS spill preparedness and response in the region - Increased regional capacities on marine pollution preparedness and response - Discussion on the implementation of the RCP and relevant regional co-operative activities
3. Expert Meeting	Korea & MERRAC	<ul style="list-style-type: none"> - Prepare the expert meeting to be held in October 2017 (potential dates) in Korea, including the workshop programme, and invitation of speakers, relevant logistics, etc. - Report the detailed plan on organization of the expert meeting to next FPM 	<ul style="list-style-type: none"> - Prepared the workplan for 2017 Expert Meeting

<p>4. Report on oil and HNS Pollution Incidents</p>	<p>MERRAC and NOWPAP Members</p>	<ul style="list-style-type: none"> - Share oil and HNS spill incidents among the members when they occur - Overview oil and HNS spill cases occurred in the region with support from FPs and other relevant organizations - Collect lists of oil and HNS spill incidents over 10 tons in the NOWPAP member states - Maintain and update the relevant list on MERRAC website 	<ul style="list-style-type: none"> - Sharing prompt relevant information among the members - Updated database on oil and HNS spills in the NOWPAP region on regular basis
<p>5. Information System</p>	<p>MERRAC and NOWPAP Members</p>	<ul style="list-style-type: none"> - Update information of oil and HNS spill response equipment, institutions and experts - Maintain and update the information on MERRAC website - Report it to next FPM (as reference material to the Information System) 	<ul style="list-style-type: none"> - Updated Information System (in particular the list of available equipment which can be possibly assisted to each member when major spills occur within the framework of the RCP) - Uploaded Information System
<p>6. Training and Exercise</p>	<p>MERRAC and NOWPAP members</p>	<ul style="list-style-type: none"> - Carry out two NOWPAP BRAVO exercises (communication exercise) during the intersessional period under the leading role of Japan and Korea a rotation basis. Especially implement them without pre-notice on exact dates. - try to implement the exercise together using new Online Pollution System - Organize 6th NOWPAP DELTA exercise (hosted by China and co-hosted by Korea) - Report the results to next FPM 	<ul style="list-style-type: none"> - Conducted two NOWPAP BRAVO exercises and one DELTA exercise. - Improvement of communication system among the members - Improved regional response capacity for oil and HNS spills
<p>7. Communications</p>	<p>MERRAC</p>	<ul style="list-style-type: none"> - Maintain and facilitate routine communication links between relevant authorities in the NOWPAP region - MERRAC shares its activities and information with Members and relevant organizations 	<ul style="list-style-type: none"> - Establishment of efficient communication system relevant to oil and HNS spill preparedness and response in NOWPAP area - Enhanced information sharing among the member states and relevant bodies

8. Other Routine Tasks as described by the TOR of MERRAC or decided upon by the FPM and/or IGM	MERRAC and NOWPAP members		
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2. Specific projects and/or activities coordinated by MERRAC during the intersessional period

Tasks	Lead Country / Agency	Actions	Expected Outputs
<p>1. Development of MERRAC Information System based on the Web GIS</p>	<p>MERRAC and NOWPAP Members</p>	<ul style="list-style-type: none"> - Implement the specific project based upon the decision by FPM, as described in Annex VI(a) - Develop the database system to display systematically on MERRAC website, based upon the Web-GIS system, and rearrange the existing relevant information system into the developed DB system - Report the draft version to next FPM, and then revise it along with relevant requests, if necessary until the end of 2017 	<ul style="list-style-type: none"> - Updated Information System on oil spill response equipment - Efficient information sharing among the members
<p>2. Development of information sharing platform on oil and HNS spills in the NOWPAP region</p>	<p>MERRAC and NOWPAP Members</p>	<ul style="list-style-type: none"> - Organize the experts group nominated by FPs and then implement the specific project based upon the decision by FPM, as described in Annex VI(b) - Develop relevant internet-based platform under MERRAC website - Collect latest information and news, relevant activities on oil and HNS spills in the region, and then upload them on website on regular basis - Develop the draft review papers on major marine pollution incidents and/or relevant issues in the region (by nominated experts from FPs), and then upload them - submit the draft report to the next MERRAC FPM 	<ul style="list-style-type: none"> - Establishment of oil and HNS spill information sharing platform in the NOWPAP region - Prompt and efficient information sharing among the NOWPAP members - Increased public awareness on oil/HNS spill issues in the region
<p>3. Development of a technical report on oiled wildlife (mainly marine</p>	<p>MERRAC and NOWPAP Members</p>	<ul style="list-style-type: none"> - Organize the experts group nominated by FPs and then implement the specific project based upon the decision by FPM, as described in Annex VI(c) 	<ul style="list-style-type: none"> - Technical report on oil wildlife response in the NOWPAP region - Comprehensive understanding on current

<p>mammals and birds) response in the NOWPAP region</p>		<ul style="list-style-type: none"> - Collect and review existing data on oiled wildlife response including its impact cases, relevant response techniques, and/or relevant national laws/policies/regulations, etc in the NOWPAP region - Analyze challenges and/or weakness to be improved in the region regarding oiled wildlife response in the region, together with recommendations to be taken in the region at the national and regional levels. - Submit the draft technical report to the next FPMs 	<p>situation on oiled wildlife response in the region, and identification of the future activities to be taken in the NOWPAP region at the national and/or regional levels</p> <ul style="list-style-type: none"> - Increased public awareness on oiled wildlife response
<p>4. RAP MALI</p>	<p>MERRAC</p>	<ul style="list-style-type: none"> - Finalize the report on Understanding of Floating Marine Litter Distribution and Impacts in the NOWPAP Region (delayed from 2015) - Implement the 2016/2017 ML project on Review and Analysis of Existing Floating ML prediction Model in the NOWPAP region, as decided by IGM, in cooperation with relevant ML FPs and relevant experts - Prepare the report until end of 2017. 	<ul style="list-style-type: none"> - Sharing of information on ML prediction model in the region - Published Regional Report
<p>5. Correspondence Group on Oil Sample Exchange</p>	<p>Korea/Japan</p>	<ul style="list-style-type: none"> - Organize the correspondence group and implement the designated their ToR, as described in Annex VII - Collect relevant information, to understand the existing oil sampling procedures of the NOWPAP members - Develop a report, which will mainly include current status, challenges and recommendations - Report the results to next FPM for their discussion on future directions. 	<ul style="list-style-type: none"> - Understanding on existing oil sampling procedures in the regions - Identification of co-operation agenda to deal with future activities on oil sample exchanges in the region

6. Other Specific projects as described by the TOR of MERRAC or decided upon by the FPM and/or IGM	MERRAC		
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Annex IX

List of the files in the CD-ROM

Annex IX. List of files in the CD-ROM

Report of the Nineteenth NOWPAP MERRAC Focal Points Meeting & the Eleventh Competent National Authorities Meeting (Jeju, Republic of Korea, 31 May - 3 June, 2016)

Agenda 4. Overview of the progress made during the intersessional period after the Eighteenth NOWPAP MERRAC Focal Points Meeting

- Report on the MERRAC activities after the 18th MERRAC FPM (Dr. Seong-Gil KANG, MERRAC)

Agenda 5. Review of the progress made for each task agreed at the Eighteenth NOWPAP MERRAC Focal Points Meeting, and identification of future work

- Report on the MERRAC Routine Tasks (Mr. Bo-Sik KANG, MERRAC)
- Report on the results of the 2015 NOWPAP MERRAC Expert Meeting (Dr. Natalia KUTAEVA, Russia)
- Progress report on the implementation of the MERRAC Specific Projects (Ms. Jung-Hyun LIM, MERRAC)
- Update of DB on oil and HNS spill response equipment and experts (Ms. Jung-Hyun LIM, MERRAC)
- Online pollution reporting system (Ms. Yoon-Young BACK, MERRAC)
- Risk assessment of oil spill incident: likelihood analysis (Dr. Choong-Ki KIM, KEI)
- Likelihood analysis of oil spill incidents (Dr. Valentin ZHURAVEL, Russia)
- Proposals for the new MERRAC specific projects for the 2016/2017 biennium (Ms. Jung-Hyun LIM, MERRAC)
- Report on marine litter activities of MERRAC (Ms. Yoon-Young BACK, MERRAC)

Agenda item 6. Issues related to the NOWPAP Regional Oil and HNS Spill Contingency Plan including its Annexes

- Procedure for exchange of oil sample for transboundary marine pollution incidents in the NOWPAP region (Ms. Yoon Young BACK, MERRAC)
- Demonstration of oil sampling in Korea (Mr. Eung-Ki SEO, Korea)
- Oil sampling in China (Mr. Peng GUO, China)
- Oil sampling in Japan (Mr. Kenichiro MARUYAMA, Japan)

Agenda item 7. Report and discussion on the NOWPAP training and exercises carried out during the last intersessional period and to be held in the near future

- Report on the NOWPAP training and exercise (Ms. Jung-Hyun LIM, MERRAC)
- Plan of the organization of the 6th NOWPAP DELTA exercise (Mr. Peng GUO, China)

Agenda item 8. Exchange of latest information on marine pollution preparedness and response in the NOWPAP members (presentations by the representatives of CNAs)

- Recent Progress in China's Oil Spill Response Capability Building (Mr. Peng GUO, China)
- Technical Assistance to Sri Lanka for oil spill response (Mr. Kenichiro MARUYAMA, Japan)
- Case study Ocean tango vessel oil spill (Dr. Hyun-Kue CHOI, Korea)
- Result of Emergency Response Working Group of 2016 NPCGF Expert meeting (Dr. Hyun-Kue CHOI, Korea)
- Information HNS response vessel (Dr. Hyun-Kue CHOI, Korea)
- Oil spill response and cleanup operation of the emergency tanker "Nadezhda" (Dr. Natalia KUTAEVA, Russia)
- Latest activities related to oil and HNS issues in Russia (Dr. Natalia KUTAEVA, Russia)
- Recent oil spill related activities of Oil Spill Response Limited (Mr. Andy WONG, OSRL)
- International Partnerships to Improve Oil Spill preparedness, Prevention and Response (Mr. Joselito GUEVARRA, IPIECA)

Agenda item 9. Workplan and budget for the 2016/2017 biennium and other future activities

- Draft plan for the organization of the 2017 MERRAC Expert Meeting in Korea (Dr. Hyun-Kue CHOI, Korea)
- Minimum response requirement for oil spills at the offshore units (Dr. Valentin ZHURAVEL, Russia)

