

**REPORT OF THE TECHNICAL MEETING OF THE REVOLVING FUND
COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

1. INTRODUCTION

1.1 Pursuant to the decision of the 42nd Annual Meeting of the Revolving Fund Committee (RFC) on 20th July 2023, the 42nd RFC Technical Meeting was held on 22nd February 2024.

1.2 The Meeting was chaired by Captain Chong Jia Chyuan (Senior Deputy Director (Operations)/Port Master, Maritime and Port Authority of Singapore (MPA), and attended by delegations from Indonesia led by Mr. Jon Kenedi (Director of Sea and Coast Guard, Directorate General of Sea Transportation, Indonesia), Malaysia led by Mr. Rosli Bin Osman, (Director, Water and Marine Division, Department of Environment, Malaysia) and Singapore led by Captain Charles Alexandar De Souza, (Deputy Director, Marine and Environment Safety)/Deputy Port Master, MPA). Officers from ITOPF, Mr. David Campion, Senior Technical Adviser and Dr. Conor Bolas were also invited to the meeting. The list of delegations and participants are as enclosed in **Annex A**.

2. WELCOME ADDRESS

2.1 RFC Chairman Captain M Segar, Assistant Chief Executive (Operations) of MPA, delivered his welcome address. He welcomed delegates from Indonesia, Malaysia, Singapore and officers from ITOPF for the 42nd RFC Technical Meeting. This is the 2nd year of Singapore RFC Chairmanship since taking over.

2.2 He expressed his appreciation to ITOPF for their assistance in organizing the RFC-ITOPF workshop, sharing their knowledge and experience in managing oil spill incidents which was highly beneficial to all the participants. He also hoped that ITOPF would continue providing support towards the RFC in future.

2.3 He expressed his gratitude towards Malaysia for their continuous support in maintaining and managing the RFC website as well as the registration of participants.

2.4 He emphasized the importance of the RFC technical meeting as a useful platform for all delegates to improve oil spill response capabilities through information exchange and sharing of the best practices. He encouraged the Littoral States to begin the preparation of the upcoming Table-Top and Oil Spill Response exercise.

2.5 He urged the Littoral States to remain vigilant and uphold their responsibilities to ensure navigational safety and protection of marine environment in the SOMS. He reiterated that Singapore would continue to maintain high standards during their management of the Fund and the Chairmanship of the RFC for the remaining duration of her 5-year stint. The full welcome address is attached in **Annex B**.

3. **OPENING REMARKS**

3.1 The Chairman of the RFC Technical Meeting (“Chairman”) delivered his opening remarks. He welcomed delegates from Indonesia and Malaysia to Singapore, and ITOPF technical advisors for joining the meeting. He thanked the delegates for attending the RFC Technical Meeting despite their busy schedules.

3.2 The Chairman shared that effective communication, coordination, response efficacy and preparedness are crucial towards tackling oil spill incidents effectively. He also thanked ITOPF for their support and insights while conducting the two-day oil spill response workshop. He emphasized the importance of RFC Oil Spill Response exercise planning leading up to the Table-Top and Oil Spill Response Exercise in 2024 and 2025 respectively. He wished for ITOPF’s support and advise for the upcoming exercises. He reiterated Singapore’s commitment to the RFC and reminded the meeting that the key objective of the RFC SOP is to facilitate a coordinated response to an oil spill incident and exercises should be carried out to improve the RFC SOP. The full opening remarks by the Chairman can be found in **Annex C1**.

3.3 The Head of Delegation of Indonesia thanked RFC Chairman, HOD Malaysia, HOD Singapore, ITOPF and the distinguished guests for attending the RFC workshop. He expressed his gratitude for being invited to Singapore for the meeting. He shared the need to attend the meeting to update the SOP and the importance of proper coordination under the RFC SOP. He also shared that the knowledge and information

acquired can be shared between each other after the successful RFC-ITOPF workshop conduct. He believes that RFC can be useful and beneficial for the Littoral States for utilization of The Fund. He hoped that there will be a successful outcome after the 42nd RFC Technical Meeting. The remark as attached in **Annex C2**.

3.4 The Head of Delegation of Malaysia thanked the Chairman and welcomed all the delegations present at the RFC Technical Meeting. He expressed his appreciation towards Singapore's secretariats for arranging the Technical Meeting. He reiterated that the Littoral States to remain vigilant towards oil spill incidents. He also indicated that by cooperating and sharing information among Littoral States, each state internal mechanism will be enhanced to combat oil spill incidents. He mentioned that the RFC-ITOPF Workshop conducted was resourceful for the participants to further improve their National Oil Spill Response Plan. Malaysia is looking forward for more knowledgeable and meaningful program arranged by Singapore. He ended by introducing Malaysian delegates to new members from Singapore and Indonesia and hoped that networking will continue between the Littoral States. The remark as attached in **Annex C3**.

3.5 The Head of Delegation of Singapore expressed his honour to be at the meeting and hoped that the workshop provided valuable experience in combating oil spill incidents effectively and efficiently in future. He would like to extend his gratitude to ITOPF for their support on the workshop. He highlighted the aim of the meeting is to be better equipped with knowledge and expertise to tackle oil spill incidents. He updated that a proposal will be raised during the meeting for delegates from Littoral States to attend the IMO Level 3 training by OSRL. He ended by urging the Littoral States to work together to ensure the safety of the SOMS and to minimise the impact of oil spills on the environment. The remark as attached in **Annex C4**.

4. **ADOPTION OF AGENDA**

4.1 The Meeting agreed and adopted the agenda as attached in **Annex D**.

5. BUSINESS ARRANGEMENTS

5.1 The Meeting agreed to proceed with the business arrangements as attached in **Annex E**.

6. REVIEW / UPDATE OF RFC SOP

6.1 The Standard Operating Procedure for Joint Oil Spill Combat in The Straits of Malacca and Singapore was updated. The updates are as follow:

- a) Section 005 – Indonesia updated the contact details and contact persons while Malaysia updated the details of their Ministry
- b) Appendix 2 – Malaysia, Singapore and Indonesia updated the details of the contact persons.
- c) Appendix 8B – Malaysia updated the Stockpile Oil Spill Response Equipment List and contact details
- d) Appendix 8C – Singapore updated the list of equipment company, oil spill response resources, oil spill dispersants and list of salvage contractors.

6.2 The meeting agreed that any changes to the point of contact will be updated to each Littoral State's Secretariat via email.

6.3 The meeting agreed with the updates to the SOP. The updated SOP can be found in **Annex F**.

7. INFORMATION PAPER ON THE TWO-DAY RFC-ITOPF WORKSHOP

7.1 The RFC-ITOPF Workshop was conducted by the ITOPF. It was held in Singapore on the 20th and 21st February 2024 at Village Hotel Bugis. The workshop was attended by 5 participants each from the maritime and environmental agencies from the 3 Littoral States of Indonesia, Malaysia and Singapore.

7.2 The topics shared for the workshop were Communication and Coordination, Response Efficacy and Integration, RFC Funds Utilization Procedures and Synergy

with International Compensation Regimes and Preparedness. Under Communication and Coordination, ITOPF advisors highlighted the importance of early notification, information sharing and coordination to allow all Littoral States to tackle the oil spill incident efficiently. Under Response Efficacy and Integration, the various resources of the Littoral States and the synergistic transition of such capabilities in transboundary response. After some discussion, the topic “Compensation” was edited to “RFC Funds Utilization Procedures and Synergy with International Compensation Regimes”. ITOPF shared the 4 International Conventions for the basis of compensation and highlighted the importance of ensuring compensation and settlement are covered within the RFC agreement. Also, there should be an agreed schedule rates for oil spill response resources and manpower with P&I Club and ITOPF. Under Preparedness, ITOPF went through the Readiness Evaluation Tool for Oil Spills (RETOS) tool which provides guidance to assess oil spill response planning and readiness management. RETOS tool allows Littoral States to understand their capabilities towards oil spill incident and be able to fine tune their responses by identifying key areas of improvement and integration.

7.3 The workshop discussed on the topics and pointers were generated for future improvement of the RFC SOP. Exercise planning was also carried out to examine RFC SOP communication, response, compensation and preparedness for the upcoming tabletop and oil spill response exercise over the next 2 years. Some possible enhancements of the RFC SOP that arise through the workshop.

7.4 Information Paper on the 2-day RFC-ITOPF Workshop can be found in **Annex G**.

8. PROPOSAL PAPER FOR RFC OIL SPILL RESPONSE EXERCISE PLANNING WITH ITOPF

8.1 The proposal paper was shared by HOD Singapore, Capt. Charles on setting up a committee by 30th April 2024 to conduct online meetings between 3 Littoral States and ITOPF to plan for the upcoming Oil Spill Table-top Exercise and Oil Spill Exercise for 2024 and 2025 respectively.

8.2 RFC Technical Meeting Chairman added that the main objective of the proposal will be to ensure that there will be a set-up to finalize the exercise planning details which will be conducted in-conjunction with the next RFC Technical Meeting. He also engaged ITOPF on their willingness to take part in the upcoming exercises with an advisory role. ITOPF agreed to take up an advisory role for the upcoming exercises. The delegations were further encouraged to provide their inputs and comments on the proposal.

8.3 The meeting agreed with the proposal paper to come up with a committee to conduct online meetings for the upcoming exercises planned. The proposal paper can be found in **Annex H**.

9. SHARING OF EXPERIENCE BY LITTORAL STATES ON RESPONSE AND LESSON LEARNT ON RECENT OIL SPILL INCIDENTS

9.1 Malaysia shared their experience in dealing with oil spill and presented on an incident that occurred on 12th October 2020, 0700 hrs at two States of Tanjung Tuan, Malacca and Pantai Cermin, Negeri Sembilan which resulted in a spillage of estimated 3-5MT of oil affecting land features, coastal areas, and wildlife. The suspected oil spill was over an estimated area of 1 NM. Samples were taken from 4 suspected vessels, MT ALMADA, MT TENKI PANAMA, MT DARIN STAR and MT DANURIA. The spilled oil was found to be crude mineral oil from the Middle East which did not match with the samples collected from the suspected vessels. Challenges were faced as there were crocodiles present at the mangroves area which made the process of cleaning up challenging. After eight days of operation, 222 MT of waste were collected, 173 number of wildlife were saved. The clean-up operation involved 1103 personnels and 26 agencies and estimated RM 134,397.59 was spent. The challenges and lesson learnt was the coordination of multi-agencies, financial constraint, tracking source of oil spill and difficulty in claiming and compensating which was an eye-opening experience for Malaysia.

9.2 The Chairman thanked Malaysia on their sharing of experience and reiterated the importance of continued effort between Littoral States to ensure safe navigation in SOMS.

10. **PROPOSAL PAPER FOR LITTORAL STATES TO ATTEND IMO LEVEL 3 TRAINING IN 2024/2025**

10.1 Mr. Lee Jian Ming, Senior Port Chemist (Marine Environment and Safety, MPA) presented on the proposal paper for Littoral States members to attend IMO Level 3 training in the next working year 2024/2025 for the meeting support.

10.2 He proposed that RFC provides funding to sponsor 5 delegates from each Littoral States to attend the IMO Level 3 Equivalent Oil Spill Response Management Training in Singapore. The training would be conducted by Oil Spill Response Ltd. for a duration of 3 days. The Chairman encouraged inputs and comments on the proposal from the delegations and seek their support.

10.3 The meeting agreed that the RFC will only cover up to 5 participants and any other participants will be at the Littoral State's own cost.

10.4 The meeting agreed with the proposal to conduct the Oil Spill Response Management Training in Singapore. The proposal paper can be found in **Annex J**.

11. **UPDATE TO RFC WEBSITE**

11.1 Mr. Lee Jian Ming, Senior Port Chemist (Marine Environment and Safety, MPA) presented on the amendment to the RFC website. The update on the RFC website will serve to spread an awareness on the initiatives taken by RFC and Littoral States in improving its response capabilities during a transboundary spill response incident. He updated that Singapore would like to update the website as follow:

- a) Update under "News & Update" on <https://rfcsoms.org/>
- b) Title: 2-Day RFC-ITOPF Workshop
- c) Information Paper on the 2-Day RFC-ITOPF Workshop as per Agenda 6 and photos on conduct of workshop

11.2 Singapore seeks comments and inputs from Littoral States as well as Malaysia's advice on ways to proceed with the update on RFC website.

11.3 The meeting agreed with the updates presented by Singapore for the RFC website. The proposed update can be found in **Annex K**.

12. DISCUSSION ON OTHER MATTERS

12.1 Malaysia asked for the possibility for RFC to come up with a workshop focused on the process and procedures for making claims. The Chairman suggested to seek ITOPF's guidance to come up with the workshop requested to review and update the RFC SOP. The meeting agreed to coming up with the workshop within Singapore's Chairmanship.

12.2 The Chairman asked Malaysia and Indonesia on their availability and preferred date for the next Technical Meeting 2024/2025 together with the tabletop exercise. Malaysia indicated their preference of the Technical Meeting to be after October 2024 and not during December 2024. Indonesia indicated after their preference for the Technical Meeting to be held after August 2024.

12.3 Chairman considered both requests and informed the meeting that he will consult the RFC Secretariat to ensure that suitable periods can be proposed.

13. ANY OTHER BUSINESS

13.1 The Chairman opened the floor to all delegates to raise any further issues to be addressed by the RFC Technical Meeting.

14. CLOSING REMARKS

14.1 The Chairman addressed the delegation of Indonesia and Malaysia as well as ITOPF officers and thanked them for attending the meeting, making it a success. He expressed that the meeting should pave the way forward to strengthen cooperation and commitment to the administration of the RF before drawing a close to the meeting.

14.2 The delegations of Indonesia and Malaysia expressed their sincere appreciation to Singapore for the successful organising of the 2024 RFC Technical meeting.

14.3 The closing remarks by the Chairman can be found in **Annex L**.

15. **CONSIDERATION AND ADOPTION OF THE REPORT**

15.1 The meeting considered and adopted the report.

CONFIRMATION OF MINUTES

The report of the 42nd Revolving Fund Committee Technical Meeting held in Singapore on 22nd February 2024 is hereby confirmed:

MR JON KENEDI

Member of the Revolving Fund Committee
Indonesia

MR ROSLI BIN OSMAN

Member of the Revolving Fund Committee
Malaysia

CAPT CHARLES ALEXANDAR DE SOUZA

Member of the Revolving Fund Committee
Singapore

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List of Delegations and Participants
MARITIME AND PORT AUTHORITY OF SINGAPORE
THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis

CHAIRMAN

1. Capt. Muhammad Segar Abdullah
Assistant Chief Executive
(Operations) Maritime
and Port Authority of Singapore

RFC TECHNICAL MEETING CHAIRMAN

2. Capt. Chong Jia Chyuan
Senior Deputy Director (Operations)/Port Master
Maritime and Port Authority of Singapore

INDONESIA DELEGATION

3. Mr. Jon Kenedi (Head of Delegation)
Director of Sea and Coast Guard
Directorate General of Sea Transportation, Indonesia
4. Ms. Dienda Rieski Pramita
Assistant Deputy Director for Disaster Response
Directorate General of Sea Transportation, Indonesia
5. Mr. Ghalib Alghani Lusarno
Legal Officer
Directorate General of Sea Transportation, Indonesia

MALAYSIA DELEGATION

6. Mr. Rosli Bin Osman (Head of Delegation)
Director
Water and Marine Division, Department of Environment, Malaysia
7. Ms. Norina Frederick Sambang
Senior Principal Assistant Director
Water and Marine Division, Department of Environment, Malaysia
8. Mr. Norjipin Bin Saidi
Director

Safety, Security and Environment Protection Division, Marine Department,
Malaysia

SINGAPORE DELEGATION

9. Capt. Charles Alexandar De Souza (Head of Delegation)
Deputy Director (Marine Environment & Safety)/Deputy Port
Master Maritime and Port Authority of Singapore
10. Mr. William Wong
Deputy Director (Emergency
Preparedness) Maritime and Port
Authority of Singapore
11. Mr. Lee Jian Ming
Senior Port Chemist (Marine Environment & Safety)
Maritime and Port Authority of Singapore

ITOPF OFFICERS

12. Mr. David Campion
Senior Technical Advisor
ITOPF
13. Dr. Conor Bolas
Technical Advisor
ITOPF

RFC SECRETARIAT (RFC SECT)

14. Ms. Cindy Hoh
Deputy Director (Special Projects)
Maritime and Port Authority of
Singapore

SECRETARIAT (SECT)

15. Capt. Dilshad Ahmad
Principal Marine Manager (Ops Planning and Pilotage)
Maritime and Port Authority of Singapore
16. Mr. Muhammad Shahbaz
Port Chemist (Marine Environment & Safety)
Maritime and Port Authority of Singapore
17. Mr. Arthur Leong
Port Chemist (Marine Environment & Safety)
Maritime and Port Authority of Singapore

ANNEX B

WELCOME ADDRESS BY RFC CHAIRMAN ASSISTANT CHIEF EXECUTIVE (OPERATIONS), MARITIME AND PORT AUTHORITY OF SINGAPORE

THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE 22 February 2024, Thursday Village Hotel Bugis

Distinguished Head of Delegation Indonesia
Mr. Jon Kenedi
Director
Marine and Coast Guard Unit
Directorate General of Sea Transportation, Indonesia
Ms. Dienda Rieski Pramita
Mr. Ghalib Alghani Lusarno

Distinguished Head of Delegation Malaysia
Mr. Rosli Bin Osman
Director
Water and Marine Division
Department of Environment, Malaysia
Ms. Norina Frederick Sambang
Mr. Norjipin Bin Saidi

Mr. David Campion & Team from ITOPF. Head of Delegation of Singapore, Capt. Charles Alexandar De Souza, Mr. William Wong and Mr. Lee Jian Ming.

1. Ladies and Gentlemen. Good morning. I hope you had a great welcome dinner last night. It is of great privilege for Singapore to host our esteemed guests for the 42nd RFC Technical Meeting.
2. As Singapore took over the chairmanship from Malaysia last year and hosted the first RFC Technical Meeting of the 5-year cycle, a five-year plan was proposed and agreed upon by all. This year we have embarked on one of the key activities, the 2-Day RFC-ITOPF Workshop that will lead towards refining the RFC SOP and planning for the tabletop and oil spill exercise in the coming years. I sincerely hope that the workshop was beneficial to all our participants.

3. I would like to extend my special thanks to Mr. Campion and his team for assisting Singapore to organize the workshop, imparting their knowledge, experience, and expertise in the management of oil spill incidents. I am sure that your team's valuable sharing has benefitted all participants and I hope that ITOPF will continue to support the cause of Revolving Fund in future.
4. I would also like to thank Malaysia for their continuous support to help with the management of the RFC website and for helping us with the registration of the participants via the website.
5. I hope that this year's RFC Technical Meeting will once again be a useful platform for all delegates to exchange insights, share best practices, and discuss ways to enhance the capacity of Littoral States in responding to oil spills incidents. At this meeting, I encourage the Littoral States to lay the foundation in preparation of the smooth conduct of the upcoming TTX and Oil Spill Response exercise.
6. In conclusion, as shipping continues through the Straits of Malacca and Singapore, we need to remain vigilant and uphold our responsibilities in maintaining safety of navigation and protect the marine environment. The Revolving Fund thus serves as an effective mechanism for this purpose, and we would like to re-iterate that Singapore commitment to it shall always remain strong. We hope for the continual support of members to ensure efficient management of the fund and meetings.
7. Again, I thank you all for attending the 2024 RFC technical meeting. Please have a smooth and fruitful discussion today.

Thank you.

**OPENING REMARKS BY RFC TECHNICAL MEETING CHAIRMAN SENIOR
DEPUTY DIRECTOR (OPERATIONS)/PORT MASTER, MARITIME AND PORT
AUTHORITY OF SINGAPORE**

**THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

RFC Chairman, Capt. Segar

Distinguished Head of Delegation Indonesia
Ms. Jon Kenedi
Director
Marine and Coast Guard Unit
Directorate General of Sea Transportation, Indonesia

Distinguished Head of Delegation Malaysia
Mr. Rosli Bin Osman
Director
Water and Marine Division
Department of Environment, Malaysia

Mr. David Campion & Team from ITOPF. Head of Delegation of Singapore, Capt. Charles Alexandar De Souza, Mr. William Wong and Mr. Lee Jian Ming.

1. Ladies and Gentlemen. Good morning. First, I would like to take this opportunity as the Chairman of the Technical Meeting to thank all delegate for taking the time off their busy schedule to attend the Technical Meeting today.
2. This year as mentioned we have completed a two-day oil spill response workshop with the help of experts from ITOPF. During the workshop, many insights were shared by ITOPF in the management of oil spills incidents. Key areas include importance of effective communication, coordination, response efficacy and preparedness. I feel that such areas are vital towards effective and timely management of oil spills incidents. I strongly believe with the information and experience shared; it was beneficial for all the participants. For this, I would like to extend my heartfelt gratitude to ITOPF for their support.
3. In today's meeting, I will be supported by the RFC Authority, RFC Secretariat Team led by Ms. Cindy Hoh as well as Sect Mr. Arthur Leong and Sect Mr. Muhammad Shahbaz.
4. For today's agenda, I would like to emphasize the importance of RFC Oil Spill Response exercise planning that will lead up to the tabletop and oil spill response exercise in the coming years. I hope all Littoral States members will provide support

and valuable inputs in planning and conducting the exercise. Furthermore, I hope that ITOPF can support us with the exercises from an advisory role.

5. As mentioned by the RFC Chairman, Singapore will continue to ensure high standards are maintained during her chairmanship. We should always remember that the objective of the meeting is to share and learn from our differing experiences. Exercises and workshops are integrated to help us meet the objective of combatting oil spill incidents in a timely manner with minimal negative impact to our environment.
6. With this, I would like to once again thank all of you for being here today. Thank you.

**OPENING REMARKS
BY
BY DIRECTOR OF SEA AND COAST GUARD
AT THE 42nd TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
(RFC)
SINGAPORE, 22 FEBRUARY 2024**

DISTINGUISHED CHAIRMAN, CAPT. MUHAMMAD SEGAR ABDULLAH

DISTINGUISHED RFC TECHNICAL MEETING CHAIRMAN, CAPT. CHONG JIA CHYUAN

DISTINGUISHED HEAD OF DELEGATION OF SINGAPORE, CAPT. CHARLES ALEXANDAR DE SOUZA

DISTINGUISHED HEAD OF DELEGATION OF MALAYSIA, MR. ROSLI BIN OSMAN

DISTINGUISHED REPRESENTATIVE FROM THE INTERNATIONAL TANKER OWNERS POLLUTION FEDERATION, MR. DAVID CHAMPION

DISTINGUISHED RFC SECRETARIAT AND ALL OF THE SECRETARIAT TEAM

DISTINGUISHED SINGAPORE DELEGATES,

DISTINGUISHED MALAYSIA DELEGATES,

DISTINGUISHED INDONESIA DELEGATES,

LADIES AND GENTLEMEN,

Assalamualaikum Warahmatullahi Wabarakatuh
Salam Sejahtera untuk Kita Semua
Very Good morning,

Greetings to All,

Wishing you good health, happiness, and success in all your endeavors. I would like to congratulate Malaysia on the newly elected Raja Malaysia of the 17th, Sultan Ibrahim from Johor, which was officially appointed on 31st January 2024. I also extend my highest appreciation to Singapore for its successful role as the RFC secretariat since 2022.

This is my first RFC meeting, although I am somewhat familiar with RFC activities from my previous assignment at Tanjung Balai Karimun Port, where I handled

incidents of Young Yong. Therefore, on this occasion, I involve the Singapore attache, Capt. Diaz Saputra as an observer so that all activities can be monitored and informed to the Ministry of Transportation representatives in Singapore.

I would like to express again and again, our great appreciation, to the Malacca Strait Council (MSC) for the contribution to the effective maintenance of the Malacca and Singapore Straits, noting that this support has been rendered for more than 40 years now.

Ladies and Gentlemen,

On behalf of the Director General of Sea Transportation, Ministry of Transportation of the Republic of Indonesia, I would like to congratulate and thank Singapore as the host and all of us here for the success of the Revolving Fund Committee (RFC) Technical Meeting and ITOPF Workshop. I believe that the workshop will enhance the knowledge and experience of all participants from the three countries in terms of readiness and response to oil spill incidents. We look forward to moments of knowledge sharing and information exchange like this so that our future generations can gain valuable insights.

I also want to express gratitude for all the successful activities carried out in 2023, such as workshops, technical meetings, and annual meetings, which were made possible through solid cooperation.

As world trade continues to expand and shipping traffic increases, the task of maintaining safety and preserving the marine environment in the Straits grows in tandem, and I believe that RFC has demonstrated to be useful and benefitted the littoral states in the making use and utilization of the fund.

I hope this meeting goes smoothly and successfully, providing deep insights, best practices, and beneficial outcomes regarding current issues in the maritime environmental sector. Of course, we do in advance other activities in the future, including the possibility of conducting oil spill response exercises.

Finally, we hope for productive discussions and successful outcomes at the end of this meeting.

May Allah SWT bless our sincere efforts.

Thank you.

Wassalamualaikum Warahmatullahi Wabarakatuh

JON KENEDI

DIRECTOR OF SEA AND COAST GUARD

DIRECTORATE GENERAL OF SEA TRANSPORTATION



ANNEX C3

MALAYSIA HOD REMARKS

on the occasion of

THE REVOLVING FUND TECHNICAL MEETING

22nd February 2024

By:

MR. ROSLI BIN OSMAN

Director of Water and Marine Division,
Department of Environment, Malaysia

Distinguished Chairman of Revolving Fund Committee, **Captain M Segar**,
Assistant Chief Executive (Operations), Maritime and Port Authority of
Singapore.

Distinguished Chairman of Revolving Fund Technical Meeting, **Captain
Chong Jia Chyuan**, Senior Deputy Director (Operations) / Port Master,
Maritime and Port Authority of Singapore.

Distinguished Head of Indonesia Delegation, **Mr. Jon Kenedi**
Director for Marine and Coast Guard Unit
Directorate General of Sea Transportation Indonesia.

Distinguished Head of Singapore Delegation
Captain Charles Alexander De Souza
Deputy Director (Marine Environment and Safety) / Deputy Port Master
Maritime and Port Authority of Singapore.

Distinguished Indonesia Delegates,
Distinguished Singapore Delegates,
Distinguished Ladies and Gentlemen,

Assalamualaikum Warahmatullahi Wabarakatuh and a very good
morning.

1. First of all, as today we are still in lunar Chinese New Year
celebration, still not too late for me to wish our Chinese friend
“Happy New Year and may the new year bring good luck and
prosperity”

2. I am very glad to have another opportunity to be involved in such a prestigious meeting. On behalf of Malaysia delegates, I like to convey appreciation to Singapore's Secretariat for the meeting arrangement. Most of all, me and my colleague, Pn. Norina able to attend it physically though has a bit of hiccup related to our approval to travel oversea. As everyone here may notice that on 12 December 2023, Malaysia Prime Ministry has made announcement on the restructuring of the Malaysia Cabinet and our Ministry of Natural Resources, Environment and Climate Change has been split to two Ministries: Ministry of Natural Resources and Environmental Sustainability (NRES) and Ministry of Energy Transition and Water Transformation (PETRA). Department of Environment is under the Ministry of Natural Resources and Environmental Sustainability (NRES), have some matter especially related to administrative still yet to be settled. Hope this information will make the Secretariat to understand on the important of early arrangement especially on the approval matter.
3. The establishment of the Revolving Fund since 1981 has a long-term mechanism in assisting the Littoral State in safeguarding the safety of the Straits from the oil spill pollution from the ship. Nevertheless, the Littoral States still in need to be vigilant towards the unknown sources of oil spill. Collaboration and cooperative efforts in sharing information, expertise and knowledge among the Littoral States will enhance each state internal mechanism in enhancing the enforcement and combating of the oil spill incidents. As therefore, the efforts of Singapore on the arrangement of the workshop or training for capacity building of the members are very

much appreciated. Last two (2) days, one workshop has been conducted and been told that it was resourceful for the participants to further improving theirs National Oil Spill Response Plan. Malaysia will look forward for more knowledgeable and meaningful program arrange by Singapore.

4. Before I end my remark, for the benefit of both Indonesia and Singapore delegates that have some new members, allow me to do the introduction of Malaysia delegates. Start with myself, I am Rosli bin Osman, the Director of Water and Marin Division at DOE Malaysia. On my right is Mr Norjipin bin Saidi, the Director of Safety, Security and Environment Division, Marine Department Malaysia and on my left is Ms Norina Frederick Sambang, Senior Principal Assistant Director of Water and Marin Division at DOE Malaysia and cum as head of Malaysia RFC Secretariat. Nice meeting with you all and hope that our networking will continue to establish in this platform or others.
5. Thank you and Wassalamualaikum wa Rahmatullahi wa Barakatuh.

**REMARKS BY RFC TECHNICAL MEETING HEAD OF DELEGATION
SINGAPORE, DEPUTY DIRECTOR (MARINE ENVIRONMENT & SAFETY) /
DEPUTY PORT MASTER, MARITIME AND PORT AUTHORITY OF SINGAPORE**

**THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

RFC Chairman, Capt. Segar
RFC Technical Meeting Chairman, Capt. Chong

Distinguished Head of Delegation Indonesia
Mr. Jon Kenedi
Director
Marine and Coast Guard Unit
Directorate General of Sea Transportation, Indonesia

Distinguished Head of Delegation Malaysia
Mr. Rosli Bin Osman
Director
Water and Marine Division
Department of Environment, Malaysia

Mr. David Campion & Team from ITOPF.

1. Good morning. It is an honour to be present here today as the Head of Delegation of Singapore for the RFC Technical Meeting.
2. For this year, my colleagues from MPA as well as the Littoral States have successfully completed a two-day workshop prior to this meeting. I hope whatever insights that was garnered during the workshop will be crucial in combating future oil spill incidents effectively and efficiently. On top of that, I also hope that the workshop has brought us closer in terms of communicating in the event of an incident. For this, I am grateful to ITOPF for their support.
3. In today's meeting, we will be discussing on various matters as briefly mentioned by both RFC Chairman and Technical Meeting Chairman. The aim is to prepare ourselves with knowledge and expertise to combat oil spills in our region and to minimise damages to lives and properties. We will also be sharing and discussing on our collaboration with ITOPF for the exercise planning in the coming years. We will also put up a proposal during the meeting for delegates from the littoral states to attend the IMO Level 3 training with Oil Spill Response Limited (OSRL) for your support.

4. Before I end, I would like to extend my gratitude to everyone present here today and hope that everyone will have a productive and fruitful time sharing, networking and most importantly learning from one another. Let's work together to ensure the safety of the Straits of Malacca and Singapore, and to minimize the impact of oil spills on our mother nature.

Thank you.

ADOPTION OF AGENDA

**42nd Revolving Fund Committee (RFC) Technical Meeting
Village Hotel Bugis
Singapore
22 February 2024**

By RFC Secretariat

1. Welcome Address
2. Opening Remarks
3. Adoption of Agenda
4. Business Arrangements
5. Review/Update of RFC SOP
6. Information Paper on the 2-Day RFC-ITOPF Workshop
7. Proposal Paper for RFC Oil Spill Response Exercise Planning with ITOPF
8. Sharing of Experience by Littoral States on Response and Lesson Learnt on Recent Oil Spill Incidents
9. Proposal Paper for Littoral States to Attend IMO Level 3 Training in 2024/2025
10. Update to RFC Website
11. Discussion on Other Matters
 - 11.1 Date of the next RFC Technical Meeting
 - 11.2 Any Other Business
12. Consideration and Adoption of the Report
 - Closing Remarks
 - End of Meeting

BUSINESS ARRANGEMENTS

42nd Revolving Fund Committee (RFC) Technical Meeting
Village Hotel Bugis
Singapore
22 February 2024

By RFC Secretariat

TIME	AGENDA	INFORMATION/ ACTION
21st February 2024		
1200 – 1800	Arrival of Delegates	Hotel Check-In
1900	Official Dinner	All inclusive of RFC-ITOPF Workshop Officers The Royal Palm Restaurant, Level 3, Village Hotel Bugis
22nd February 2024		
0900 – 0930	Registration and Morning Tea-Break	All Quartz II, Level 6, Village Hotel Bugis
0930 – 0940	<u>Agenda 1</u> Welcome Address	Singapore
0940 – 0945	Photo Taking Session	All
0945 – 1015	<u>Agenda 2</u> Opening Remarks	RFC Technical Meeting Chairman Singapore

TIME	AGENDA	INFORMATION/ ACTION
	Remarks by Indonesia Remarks by Malaysia Remarks by Singapore	HOD Indonesia HOD Malaysia HOD Singapore
1015 - 1045	<u>Agenda 3</u> Adoption of Agenda <u>Agenda 4</u> Business Arrangements	RFC Secretariat RFC Secretariat
1045 - 1130	RFC Technical Meeting <u>Agenda 5</u> Review/Update of RFC SOP	ITOPF
1130 - 1200	<u>Agenda 6</u> Information Paper on the 2-Day RFC-ITOPF Workshop	Singapore
1200 - 1330	Lunch	All
1330 - 1415	<u>Agenda 7</u> Proposal Paper for RFC Oil Spill Response Exercise Planning with ITOPF	Singapore
1415 - 1445	<u>Agenda 8</u> Sharing of Experience by Littoral States on Response and Lesson Learnt on Recent Oil Spill Incidents	All
1445 - 1515	<u>Agenda 9</u> Proposal Paper for Littoral States to Attend IMO Level 3 Training in 2024/2025	Singapore
1515 - 1530	<u>Agenda 10</u> Update to RFC Website – Information Paper on the 2-Day RFC-ITOPF Workshop	Singapore
1530 - 1600	Tea Break	

TIME	AGENDA	INFORMATION/ ACTION
1600 - 1615	<u>Agenda 11</u> Discussion on Other Matters 11.1 Date for next RFC Technical Committee Meeting 11.2 Any Other Business	All
1615 – 1700	<u>Agenda 12</u> Consideration and Adoption of the Report Closing Remarks End of Meeting	All
23rd February 2024		
1200 - 1400	Hotel Check Out	Malaysia/Indonesia

Dress Code

Meeting : Lounge Suit without Tie
Dinner : Smart Casual



**REVOLVING FUND
STANDARD OPERATING PROCEDURE
FOR
JOINT OIL SPILL COMBAT
IN
THE STRAITS OF MALACCA AND SINGAPORE**

**THE STRAITS OF MALACCA AND SINGAPORE
REVOLVING FUND COMMITTEE**

Updated on 22nd February 2024
at the Revolving Fund Technical Committee Meeting, 2024
Singapore

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APPENDIX

- 1 GEOGRAPHICAL COVERAGE OF PLAN
- 2 NAME & ADDRESS OF LIAISON OFFICER
- 3 FUNCTION OF LIAISON OFFICER
- 4 POLLUTION FORMAT REPORT
- 5 COMMUNICATION PLAN LO/OSC/NOC/ROC
- 6 RETURN, REPLACEMENT OR REIMBURSEMENT OF
LABOUR, MATERIAL AND EQUIPMENT
- 7 GUIDELINE FOR THE COST OF PERSONNEL
- 8 RESOURCE AVAILABLE
 - A. INDONESIA
 - B. MALAYSIA
 - C. SINGAPORE
- 9 COST ANALYSIS REPORT
- 10 SAMPLING PROCEDURE

STANDARD OPERATING PROCEDURE

SECTION 001

SCOPE AND GEOGRAPHICAL COVERAGE

1. The Standard Operating Procedure (SOP) shall apply to the control and mitigation of oil spill in or threatening the sea within geographical limit of the Straits of Malacca and Singapore as drawn up by Working Group and adopted by the RFC at its Third Meeting held in Denpasar, Indonesia on 11-12 April 1984.

2. The geographical limits are defined as follows:

On the North

From the northern point of Pu Rondo (06° 04.5'N, 095° 06.4'E) to the agreed tripartite continental shelf point between Indonesia, Malaysia and Thailand in the Malacca Strait.

On the East

From the agreed territorial boundary point between Malaysia and Thailand western coast thence along the coast of Peninsular Malaysia to Tanjung Punggal (01° 26.4'N, 104° 17.9'E) and thence to the point (01° 26.4'E, 104° 35.0'E) and thence to Pulau Koko, the North-eastern extremity of Pulau Bintan (01° 13.5'N, 104° 35.0'E).

On the West

From the northern point of Pu Rondo (06° 04.5'N, 095° 06.4'E) to the northern point of Pu We and along the western coast of the island and thence to Ujung Baka, the northern most point of Sumatera (05° 39.5'N, 095° 26.0'E) and thence along the eastern coast of Sumatera to Tg. Kedabu (01° 06.0'N, 102° 58.7'E).

On the South

From Tg. Kedabu (01° 06.0'N, 102° 58.7'E) to the light beacon (00° 59.3'N, 103° 17.4'E) and thence to Tg. Gelom, the southern-most point of Pu Bulan (00° 54.6'E, 103° 56.4'E) and thence to Tg. Taloh, (01° 01.3'E, 104° 13.4'E) and thence along the northern coast of Pu Bintang to Pu Koko (01° 13.5'E, 104° 35.0'E)

3. A map showing the geographical limit appears as in **APPENDIX 1.**

SECTION 002

RESPONSE AREA AND DIVISION OF RESPONSIBILITY

1. At the outset, each State should be responsible for oil spills within its own territory.
2. In the event of a major oil spill threatening the region, the State in whose zone of responsibility the oil spill occur should assume the lead role and be initially responsible for all the actions taken related to both tracking the spills and any necessary responses.
3. In the event that the oil spill occurs at the common boundary between two or more States, the first combatting team of any State to arrive at the scene will take appropriate actions in combatting or controlling the oil spill until assistance arrives.
4. Each State should maintain individual records of action taken and equipment and other resources used to respond to the incident. These records can be utilized in cost accounting purposes and in subsequent analysis of actions taken during the spill incident in order to upgrade the SOP.

SECTION 003

OBJECTIVES

The objectives of the Standard Operating Procedure are:

1. To provide early alert to Member States on any major oil spill occurring in or threatening the Straits of Malacca and Singapore;
2. To institute prompt measures to control any major oil spill occurring in or affecting the Straits of Malacca and Singapore.
3. To facilitate the most affected State to take the leading role to coordinate and integrate the actions and efforts of the three Member States and possible third Party in combating the oil spill; and
4. To provide easy and ready references on key operational personnel, equipment and particular procedures to enable speedy movements across States.

SECTION 004

ABBREVIATIONS

LO	Liaison Officer
NOC	National Operation Centre
OSC	On Scene Commander
RF	Revolving Fund
RFC	Revolving Fund Committee
SOP	Standard Operating Procedure
TTEG	Tripartite Technical Expert Group

SECTION 005

NATIONAL OPERATION CENTRE (NOC)

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Oil Spill Control Centre

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SECTION 006

DESIGNATION OF LIAISON OFFICER

1. Each State shall designate its Liaison Officer. The Liaison Officer shall be the person responsible for coordinating the flow of information for all activities in the event of a major oil spill occurred when:
 - a) The spill threatens the water of the State;
 - b) The affected State requesting assistance from the other States; and
 - c) A request is made by any State.
2. The appointed Liaison Officers for each State are as per **APPENDIX 2**.
3. Functions of Liaison Officer are as per **APPENDIX 3**.

SECTION 007

REPORTS, ALERTS AND COMMUNICATIONS

1. A State in whose zone a spill or a serious threat occurs shall immediately inform other member States if the spill appears likely that it may affect their waters and shorelines, giving as much details as possible of the incident. The information to be given is as per **APPENDIX 4**. The State or States receiving the message shall acknowledge such receipt at the first instance.
2. The information given to these States shall be updated as frequently as possible, also giving the results of observation and prediction of the spill movement. Such information shall continue until the spill no longer threatens the State concerned.
3. A copy of information is to be extended to the Foreign Mission of the State concerned.

SECTION 008

COMMON COMMUNICATION FACILITY, SYSTEM AND PROCEDURES

1. A portable radio communication system operating on a common frequency is maintained for the smooth implementation of the SOP.
2. Each State should maintain 6 sets of the radio communication equipment to enable dissemination of information during time of emergency.
3. The portable radio communication system will be utilized by the Liaison Officer (LO) to establish direct communication between On Scene Commander and National Operation Centre (NOC).
4. The equipment to be maintained at the Individual State's NOC for deployment during emergency are as follows:

NOC	2 sets
OSC	2 sets
LO	2 sets

5. The communication plan between the LO, OSC and NOC is shown in **APPENDIX 5**.

SECTION 009

INTER STATE ASSISTANCE

1. In the event of an incident where the State is unable to cope with the situation because of its magnitude, it may seek the assistance of the other member States. Assistances includes engagement of specialist personnel, equipment, material and consumable items, vessels, aircraft, and other vehicle.
2. The Borrowing State shall be fully responsible for the use and maintenance of the equipment and materials belonging to other States while in its custody.
3. Personnel, materials, equipment, vessels and vehicles hired to the borrowing State are returned, replaced or the cost thereof shall be reimbursed by the borrowing States. The procedures are given in **APPENDIX 6**.

SECTION 010

MOVEMENTS OF PERSONNEL, CRAFT AND EQUIPMENT ACROSS STATES

1. The requesting State shall facilitate entry and exit of personnel, craft and equipment, and expedite all diplomatic, customs and immigration formalities. Details of incoming personnel, craft and equipment such as number, identification, country of origin, proposed routes shall be communicated through NOC.
2. The requesting State shall provide such personnel, amenity and facility that may be required to sustain prolonged operation. Guidelines for the cost of personnel appear in **APPENDIX 7**
3. The personnel shall come under the operational control of the requesting State and shall abide by any reasonable instructions given.
4. In the event that any personnel are injured or become ill, the requesting State will be responsible for all the expenses incurred in the State and any other expenditure involve in the repatriation of the injured personnel.
5. Across-border movement of craft of military origin is as per military standing procedures.

SECTION 011

RESOURCES AVAILABLE

1. Each State shall provide a list of all equipment, craft and support services that can be made available. The list appears as **APPENDICES 8A, 8B and 8C**. The lists should be updated whenever there is any change.

SECTION 012

COST ANALYSIS/ DAILY WORK REPORT FORM

1. The purpose of the form is to record the utilization of equipment in use each day, type of operation, the number of personnel hours worked, hourly rate and total cost¹ during the response operation. The forms will also ensure that the claims against the offending vessels or parties are properly documented and authenticated.
2. The suggested format is shown in **APPENDIX 9**.

SECTION 013

TERMINATION OF RESPONSE OPERATION

Notification of the termination after completion of the response operation in any incident of oil spills is as follows:

1. If the spill is well within the territory of the State, and it is no longer a threat to the neighboring State, notification of termination will be done by the NOC of the still affected State; or
2. If a spill incident involving two or more States, notification of termination will be made only after consultation between two or more NOCs.

SECTION 014

REIMBURSEMENT PROCEDURE

1. The State initiating or coordinating the clean-up operation shall be responsible for any negotiations with regard of the oil spill claims and reimburse any dues to the participating States.
2. All claims by the participating States should be submitted to the coordinating State within 3 months from the termination of clean-up operation.

¹Cost calculated in US Dollars

3. Representatives of each participating State seeking reimbursement may be present during negotiations pertaining to the claim of compensation with the offending vessels or parties.

SECTION 015

REVIEW AND UPDATE OF SOP

1. The SOP shall be reviewed periodically to incorporate experience gained from regular exercise and operations and updated when necessary.
2. Section 005 and Appendices to the SOP should be updated annually by member states.

SECTION 016

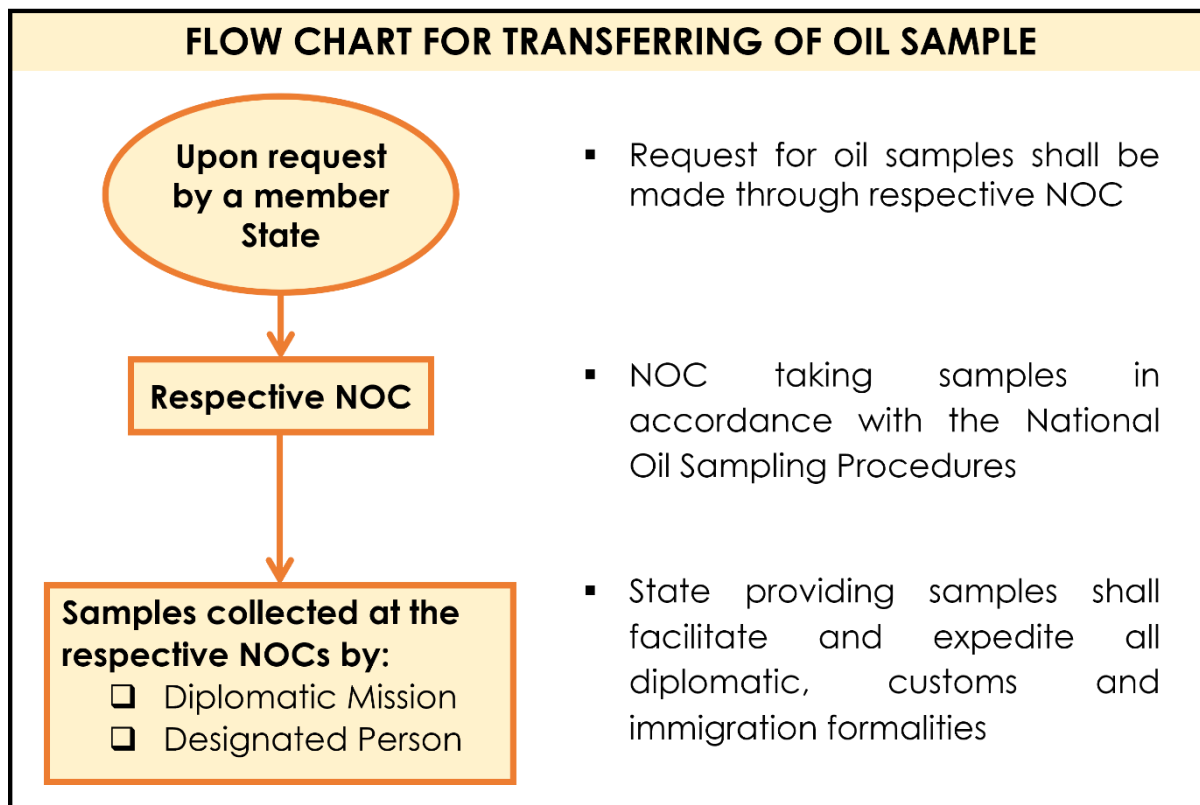
PROVISION OF OIL SAMPLE

1. Member States agree to assist each other in obtaining or providing samples of oil from ships, which had spilled in their respective waters within the scope and geographical coverage of the SOP.
2. Upon request, a member State which have collected samples of oil from ships which had spilled in its waters shall make samples available to another member State if the spillage affects the latter waters and/or coastlines (as provided in Section 007).
3. Request for oil samples shall be made through the respective National Operational Centre (NOC) that would arrange for the handover of the oil samples.
4. The oil samples shall be collected at the respective NOC by;
 - a) The local diplomatic mission of the requesting State; or
 - b) Designated person from the requesting State.

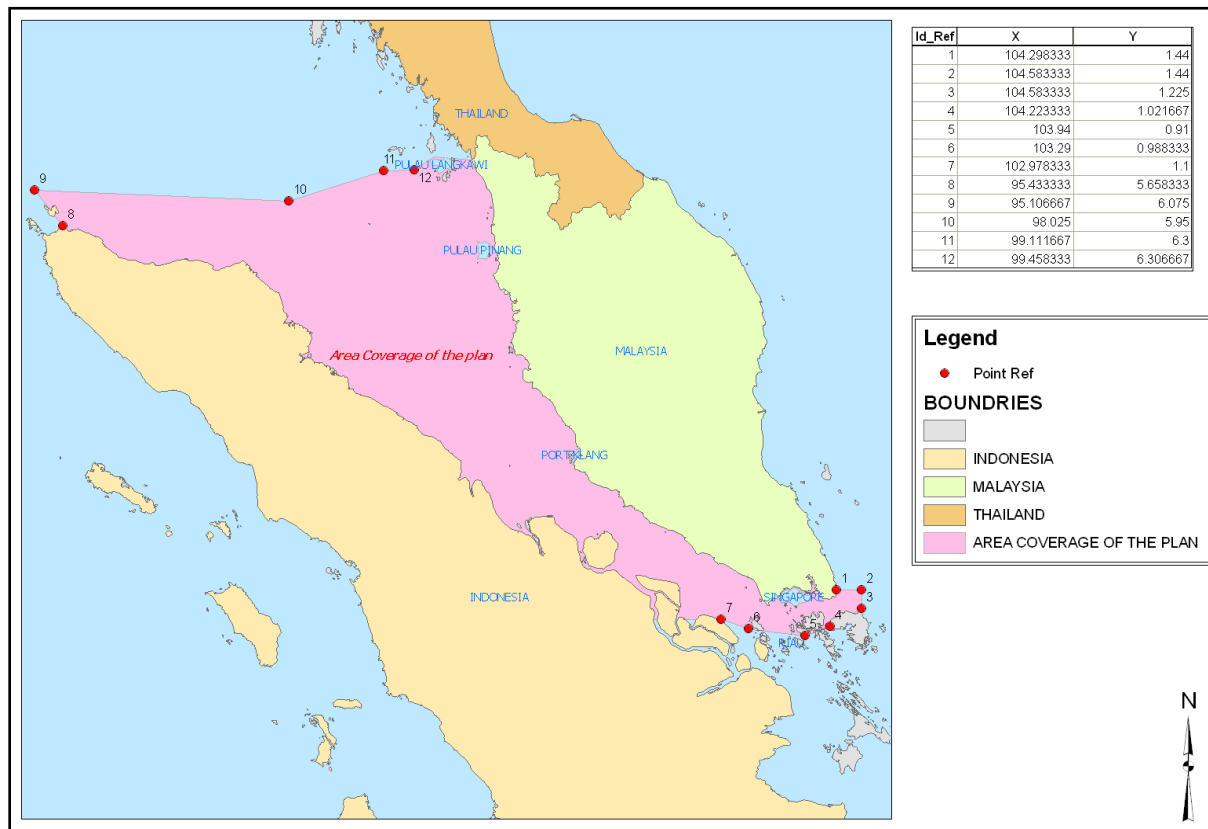
The respective State's sampling procedures is shown in **APPENDIX 10**.

5. The State providing the oil samples shall facilitate and expedite the diplomatic, customs and immigration formalities. Flow chart for the transferring the oil sample is as shown in **DIAGRAM 1** below.

Diagram 1: Flow Chart for Transferring Of Oil Sample



The Boundary for Utilization of the Revolving Fund of the Straits of Malacca and Singapore



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2. MALAYSIA**LIAISON OFFICER****Malaysia Marine Communication Centre (MMCC)**

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FUNCTIONS OF LIAISON OFFICER

1. To co-ordinate and expedite exchange of information between NOCs
2. To co-ordinate and expedite movements of personnel and equipment for joint operation amongst member States.
3. To update situation report.

POLLUTION REPORT FORMAT



Revolving Fund Committee

Urgent
Standard
Information Only

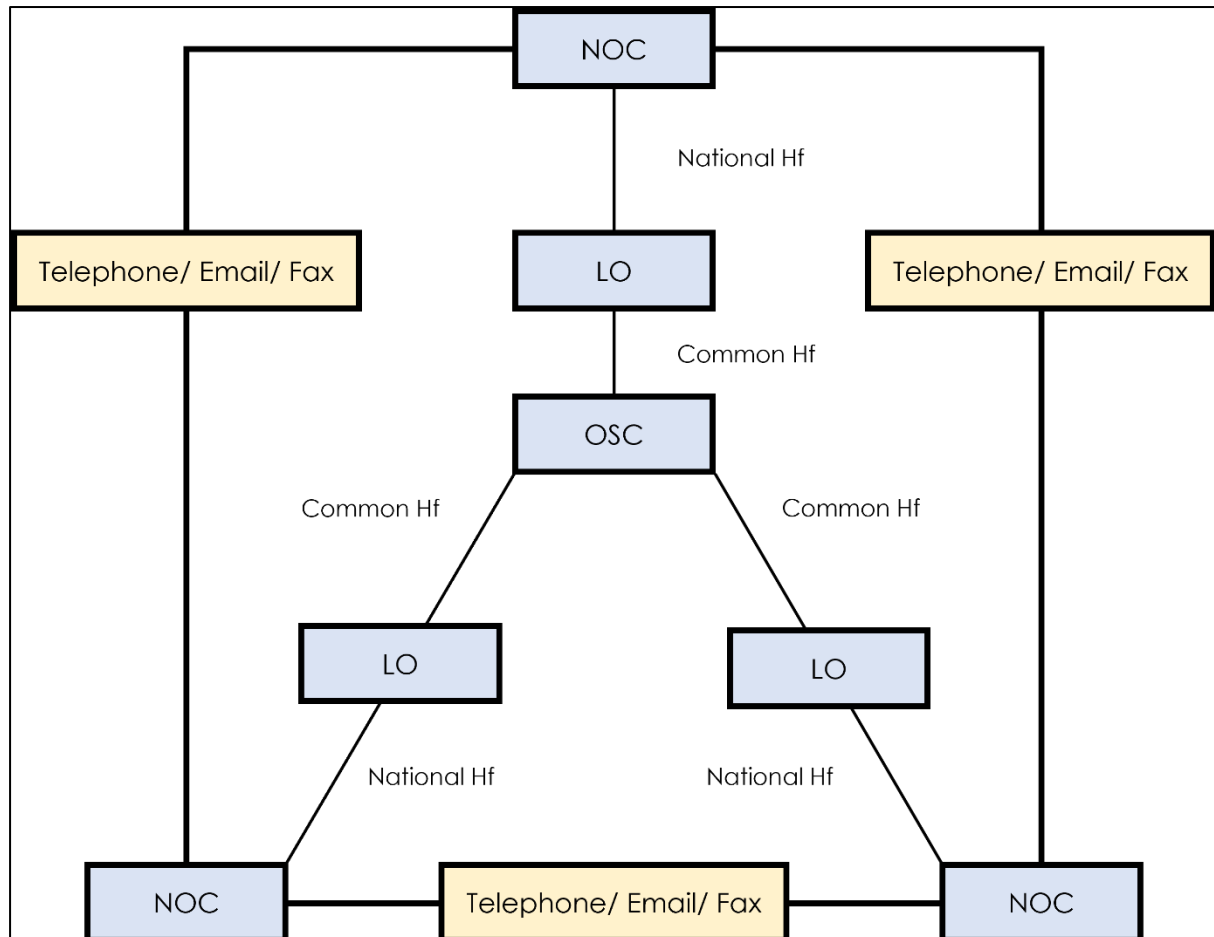
MARINE POLLUTION REPORT	From:	I	M	S
	To:	I	M	S
	Date:			

Date of Incident		
Time of Incident		
Location of Pollution	Lat:	
	Long:	
Pollution Source	Ship/ Port/ Land/ Unknown/ Others:	
Oil Type	Crude/ HFO/ MFO/ Diesel/ Tar ball/ TBC	
Quantity Spilled		
Name of Ship		
Ship IMO Num.		
Ship Type	Tanker/ Cargo/ Container/ Others:	
Type of Cargo		
Cause of Pollution		
Wind Direction/Speed /Sea Condition		
Spill Movement		
Amount of Oil Remain on Board		
Has Discharge Stopped?	Yes/ No	
Activation of Contingency Plan	State Level/ RFC Level	
Alerts to Littoral States	Indonesia/ Malaysia/ Singapore	
Response Strategy	Chemical/ Mechanical	
Proposed Actions		

Request for Deployment Liaison Officer		
Assistance Requested		

Response Equipment Resources <input type="checkbox"/> Actions Taken <input type="checkbox"/> Request of Assistance		
Equipment/Personnel/ Asset (Includes model & specification)		Quantity
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Sender Details	
Name	
Position	
Agency	
Contact Num.	
Email:	

**COMMUNICATION PLAN
LO/ OSC/ NOC**

RETURN, REPLACEMENT OR REIMBURSEMENT OF LABOUR, MATERIALS AND EQUIPMENT

A. LABOUR

The borrowing State shall reimburse the participating State for all labor costs incurred from the time any employee is released to the borrowing State until his direct return to the participating State.

B. CONSUMABLE MATERIALS

All costs necessarily incurred in complying with any request of a State to borrow consumable materials shall be reimbursed by the borrowing State. Acknowledgement of receipt should be made as soon as possible. The materials shall be replaced at the borrowing State's expense. If the materials cannot be replaced by the borrowing State, reimbursement shall be made for the participating State's replacement costs for the materials.

C. EQUIPMENT

1. Equipment shall be returned in cleaned, operational condition when no longer required for the intended purposes
2. The participating State shall put the borrowing State on notice by telex of any shortage, damage or defect in returned equipment as soon as possible. Any claim by the participating State for such shortage, damage or defect shall be supported by an independent surveyor report if such a report is requested by the borrowing State.
3. Equipment lost, destroyed or worn out while in custody of the borrowing State shall be replaced at no cost to the participating State by equipment of the same or equivalent manufacturer, model and specification, or at the option of participating State for the replacement cost for such equipment including, not limited to, the purchase price, freight, landing and clearance charges, custom duties, sales, turnover, excise or taxes and any other costs or expenses incurred by the participating State for such replacement equipment delivered to the participating State's warehouse or other storage facility.

4. The participating State shall be compensated for each item of equipment hired by a daily rental charge payable for each day or part thereof during which time any such item is on hire to the borrowing State.

D. CRAFT

Surface craft, fixed wing aircraft and helicopters will be under the control of the participating State. The daily rental will be at the rate set out by the participating State.

GUIDELINES FOR THE COST OF PERSONNEL

A. ALLOWANCE

Per diem _____

B. TRAVEL

In accordance with the participating State's normal practice for the ranking of the personnel involved.

C. FOOD & ACCOMODATION

To be provided by the requesting State according to the rank entitlement of such personnel

D. INTERNAL TRANSPORTATION

To be provided by the requesting State by the time of arrival to the time of departure.

INDONESIA - RESOURCES AVAILABLE
DGST OIL SPILL RESPONSE EQUIPMENTS STOCKPILE

TIER 3

NO.	LOCATION	OSRE DESCRIPTION		
		QUANTITY	UNIT	TYPE OF EQUIPMENT
1.	PORT OF BATAM	2	Set	Mobile 20' Storage Container
		300	Meter	Slickbar Solid Floatation Boom SL-10
		2	Set	Slickbar Storage Tank ST-12
		1	Set	Slickbar Storage Tank FFST 2500
		50	Box	Slickbar Oil Absorbent
		2	Unit	Alumunium Ladder
		1	Set	Slickbar Head for MK-13 Skimmer
		1	Set	Slickbar Powerpack MK-13 Skimmer
		1	Set	Slick Bar Sea Weir 30 Skimmer
		1	Set	Slickbar Slickspray MK-70
		25	Drum	Slickbar OSD 9000 Super Green
		1	Set	Tool Kit c/w Foot Pump
2.	PORT OF PANGKALAN SUSU	2	Set	Mobile 20' Storage Container
		300	Meter	Slickbar Solid Floatation Boom SL-10
		2	Set	Slickbar Storgae Tank ST-12
		1	Set	Slickbar Storage Tank FFST 2500
		50	Box	Slickbar Oil Absorbent
		2	Unit	Alumunium Ladder
		1	Set	Slickbar Head for MK-13 Skimmer
		1	Set	Slickbar Powerpack MK-13 Skimmer
		1	Set	Slick Bar Sea Weir 30 Skimmer
		1	Set	Slickbar Slickspray MK-70
		25	Drum	Slickbar OSD 9000 Super Green
		1	Set	Tool Kit c/w Foot Pump
3.	PORT OF SEI KIJANG	2	Set	Mobile 20' Storage Container
		300	Meter	Slickbar Solid Floatation Boom SL-10
		2	Set	Slickbar Storgae Tank ST-12
		1	Set	Slickbar Storage Tank FFST 2500
		50	Box	Slickbar Oil Absorbent
		2	Unit	Alumunium Ladder
		1	Set	Slickbar Head for MK-13 Skimmer
		1	Set	Slickbar Powerpack MK-13 Skimmer
		1	Set	Slick Bar Sea Weir 30 Skimmer
		1	Set	Slickbar Slickspray MK-70
		25	Drum	Slickbar OSD 9000 Super Green
		1	Set	Tool Kit c/w Foot Pump

NO.	LOCATION	OSRE DESCRIPTION		
		QUANTITY	UNIT	TYPE OF EQUIPMENT
4.	PORT OF TANJUNG UBAN	2	Set	Mobile 20' Storage Container
		300	Meter	Slickbar Solid Floatation Boom SL-10
		2	Set	Slickbar Storgae Tank ST-12
		1	Set	Slickbar Storage Tank FFST 2500
		50	Box	Slickbar Oil Absorbent
		2	Unit	Alumunium Ladder
		1	Set	Slickbar Head for MK-13 Skimmer
		1	Set	Slickbar Powerpack MK-13 Skimmer
		1	Set	Slick Bar Sea Weir 30 Skimmer
		1	Set	Slickbar Slickspray MK-70
		25	Drum	Slickbar OSD 9000 Super Green
		1	Set	Tool Kit c/w Foot Pump
5.	COAST GUARD BASE OF TANJUNG UBAN	2	Unit	Patrol Vessel Class 1 MDPS Type (Marine Disaster Prevention Ship)
		2	Unit	Patrol Vessel Class 2

APPENDIX 8B

MALAYSIA – RESOURCES AVAILAIBLE

STOCKPILE OIL SPILL RESPONSE EQUIPMENT LIST (As on 15th February 2024)

Agency: Malaysia Marine Department

Location:

Marine Department Northern Region, Tg. Lembong,
07000 Langkawi, Kedah, MALAYSIA.

Tel: +6 04 966 1505

Fax: +6 04 966 6354



24 hours Contact Person:

- (i) Mr. Ahmad Zahid Bin Jaafar
E-mail: zahid@marine.gov.my
Mobile: +6 016 553 0879
Tel: +6 04 6578494

Equipment	Quantity
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A	Containment Equipment	
	Offshore Boom (PDB NOFI BOOM) 150m	2 sets
	Coastal Boom (NIB Boom) 200 m	1 set
	Beach Boom (RO-Boom 800) 100 m	1 set
B	Recovery Equipment	
	Oil skimmer	1 set
	Vacuum Pump (Mobile Pantas)	1 set
	RO VAC MK II	1 set
C	Dispersant Sprayer	
	Surface Dispersant Sprayer	1 set
	D'Bond Oil Spill Dispersant	400 liter
	Corixet 9527 Oil Dispersant	800 liter
	AQ 200 Oil Spill Dispersant Biodegradable	40 liter
D	Storage Equipment	
	Ro Tank Model	1 set
	Temporary Storage Tank	1 set
E	Support Equipment	
	Anchor 32Kg	4 sets
	Marker Buoy B50	4 sets
	Defender Buoy M75	4 sets
	Back Pack Air Blower	1 set
	Water Pump	1 set
Equipment		Quantity
F	Absorbent	
	Absorbent Boom	13 bales
	Absorbent Pad	10 packs

STOCKPILE OIL SPILL RESPONSE EQUIPMENT LIST

Agency: Malaysia Marine Department

Location:

**Marine Department Northern Region, Penang,
Jalan Akurium, Gelugor,
17170 Pulau Pinang, MALAYSIA.**

Tel: +6 04 657 8494

Fax: +6 04 657 5521



24 hours Contact Person:

- (i) Mr. Ahmad Zahid Bin Jaafar
E-mail: zahid@marine.gov.my
Mobile: +6 016 553 0879

Tel: +6 04 6578494

Equipment		Quantity
A	Containment Equipment	
	Oil Boom (RO-Boom 1800) 200 m	1 set
	Beach Boom(RO-Boom 800) 100 m	2 sets
B	Recovery Equipment	
	Oil skimmer	1 set
	Vacuum Pump	2 sets
C	Dispersant Sprayer	
	Surface Dispersant Sprayer	1 set
	D'Bond Oil Spill Dispersant	400 liter
	Corixet 9527 Oil Dispersant	800 liter
	AQ 200 Oil Spill Dispersant Biodegradable	40 liter
D	Storage Equipment	
	Ro Tank Model	1 set
	Temporary Storage Tank (TroilTank)	2 sets
	Backpack Air Blower	1 set

Equipment		Quantity
E	Support Equipment	
	Anchor 32Kg	3 sets
	Marker Buoy A2	10 sets
	Marker Buoy A3	2 sets
	Marker Buoy B60	1 set
	Defender Buoy	11 sets
	Communication Equipment (Walkie – Talkie)	2 sets
F	Absorbent	
	Absorbent Boom	135 Bales
	Absorbent Pad	1557 Pcs
G	Vessel / Craft / Vehicle	
	MV Akamar	1 unit
	Sea Truck	1 unit
	Forklift (5 tons)	1 unit

Agency: Malaysia Marine Department

Location:
Marine Department Central Region, Selangor,
Foreshore Road,
42007 Port Kelang, Selangor, MALAYSIA.
Tel: +6 03 3169 5100



Fax: +6 03 3165 3540

24 hours Contact Person:

- (i) Mr. Mohd Iqram bin Mohd Kamro
E-mail : iqramkamro@marine.gov.my
Mobile : +6 014-5065216

Equipment		Quantity
A	Containment Equipment	
	Oil Boom (RO-Boom) 200 m	1 set
	Beach Boom (RO Boom 800) 100 m	1 set
B	Recovery Equipment	
	Oil skimmer	3 sets
	Oil Net (Scantrawl A)	2 sets
	Vacuum Pump	1 set
	RO VAC MK II Portable Vacuum	1 set
Equipment		Quantity
C	Dispersant Sprayer	
	Surface Dispersant Sprayer	1 set
	Spray Arm	1 set
	Water Pump	1 set
D	Storage Equipment	
	Ro Tank 10 (Troil Tank)	1 set
	Temporary Storage Tank (PU Tank)	1 set
E	Absorbent	
	Absorbent Pad	100 bales
F	Support Equipment	
	Anchor	4 sets
	Marker Buoy B50	7 sets
	Marker Buoy B60	2 sets
	Marker Buoy M75	4 sets
	Back Pack Air Blower	1 set
	Hydrocarbon Detector	2 sets
	Gas Tight Suit	1 set
	Chemical Suit	1 set
	Communication Equipment (Walkie – Talkie)	3 sets
	Tent	4 sets
G	Software	
	Oil & Chemical Spill Trajectory Model (HQ)	1 set
H	Vessel / Craft / Vehicle	
	MV Atira 26 m + (Work Boat)	1 unit
	MV Al Debaran 26 m	1 unit
	Sea Truck	1 unit

	Forklift (2.5 tons)	1 unit
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Agency: Petroleum Association of Japan (PAJ)

(As of March 2014)

Location:

Port Kelang, Selangor, MALAYSIA.

For Enquiry, kindly contact:

Petroleum Association of Japan (PAJ)

Oil Spill Response Office

1-3-2, Otemachi, Chiyoda-ku,

Tokyo 100-0004, JAPAN.

Tel: +81 3 5218 2306

Fax: +81 3 5218 2320

Website: www.paj.gr.jp/englishH

Equipment		Quantity
A	Containment Equipment	
	HD Sprint Boom	750 m
	Ro Boom 1800	750 m
B	Recovery Equipment	
	Desmi Combination Skimmer	1 set
	Lamor LWS 50	3 sets
C	Beach Cleaner	
	Minivac	2 sets
D	Storage Equipment	
	Portable Tank (Fast Tank) 9t	8 sets

Agency: Petroleum Industry of Malaysia Mutual Aid Group (PIMMAG)

Location:

Port Dickson, Negeri Sembilan, MALAYSIA.

Tel: +60 19-313 2083



Hotline: + 019 3131 631/ +60 19-350 0197

Website: www.pimmag.com.my

E-mail: om@pimmag.com.my /

gm@pimmag.com.my

As on November 2023

Equipment		Quantity
A	Containment Equipment	
	Ocean Boom (Vikoma)	500 m
	GT-Baltic Boom	300 m
	Hi-Sprint Boom	900 m
	Coastal Boom	2675 m
	Beach Guardian Boom	590 m
	Fence boom	550 m
	Solid Boom	130 m
B	Recovery Equipment	
	X150 Integrated Boom Skimmer	1 set
	T- 12 skimmer (disc)	1 set
	Duplex skimmer (disc)	2 sets
	Triplex skimmer (disc)	1 set
	DBD 5 skimmer (disc/ brush)	1 set
	KBD 815 skimmer (disc/brush)	1 set
	Foilex TDS 200 skimmer (weir)	1 set
	GT 185 skimmer (weir)	2 sets
	Delta Head Suction Skimmer	13 sets
	Beach Vacuum Skimmer	3 sets
	Ro-vac Skimmer	2 sets
	Ro-mop Skimmer	1 set
	Notil Trawler	1 set
	Nettow	4 sets
	Oil Net	12 nits
C	Dispersant Sprayer	
	Boat Spray	4 sets
	AFEDO Sprayer	1 set
	PIMMAG Dispersant Sprayer	10 sets
D	Storage Equipment	
	Storage Tank	3 units
	Fast Tank	4 units
	Floating Bag	3 units
	Towable Bladder	2 units

	IBC Tank	9 units
	PP Disposal Bag	3060 pcs
	Double liner PP Disposal Bag	593 pcs
Equipment		Quantity
E	Support Equipment	
	Beach Vehicle	1 set
	Water Pump	7 sets
	Air Blower	7 sets
	Portable Generator	2 set
	Electric High-Pressure Washer	1 unit
	High-Pressure Washer	3 units
	Anchor	33 units
	Buoy	21 units
	Forklift (5 tons)	2 units
	Crane truck (5 tons)	2 units
	4WD Nissan Navara	1 unit
F	Dispersant	
	Corexit 9527	234 drums
	Corexit 7664	80 drums
	Slickgone	161 drums
G	Absorbent	
	Absorbent Boom	270 bales
	Absorbent Pad	99 bales

Agency: Malaysia Marine Department

Location:

**Marine Department Southern Region, Tg. Pelepas,
81560 Gelang Patah, Johor, MALAYSIA.**

Tel: +6 07 507 2313

Fax: +6 07 507 3679



24 hours Contact Person:

- (i) Mrs Nur Izzati Binti Sulaiman
E-mail: nurizzati@marine.gov.my
Mobile: +6 01111132430
Tel: +6 07 5072 281

As on 23rd August 2021

Equipment		Quantity
A.	Containment Equipment	
	Oil Boom (RO-Boom 1800) 200 m	1 set
	Beach Boom (RO-Boom 800) 100 m	1 set

Equipment		Quantity
B	Recovery Equipment	
	Oil skimmer	4 sets
	Oil Net (Scantrawl A)	4 sets
	Vacuum Pump	1 set
C	Dispersant Sprayer	
	Surface Dispersant Sprayer	1 set
	Dispersant AQ 2000 (biodegradeable)	1000 litres
	Dispersant Slickgone NS	500 litres
D	Storage Equipment	
	Temporary Storage Tank (Troiltank)	1 set
	Storage Tank (RO Tank 10)	4 sets
E	Absorbent	
	Absorbent Boom	100 pcs
	Absorbent Pad	100 bales
F	Support Equipment	
	Anchor	8 sets
	Marker Buoy M75	1 set
	Marker Buoy B60	1 set
	Marker Buoy B50	2 sets
	Backpack Air Blower	1 set
	Hydrocarbon Detector	2 sets
	Communication Equipment (Walkie – Talkie)	3 sets
G	Software	
	Oil Spill Trajectory Model	1 set
H	Vessel / Craft	
	MV Al Tair 26 m	1 unit
	MV Al Nilam 26 m	1 unit
	Sea Truck	2 units
	Forklift (5 tonnes)	1 unit

LIST OF APPROVED DISPERSANTS

As on 23rd August 2021 (Latest Update: April 2021)

NO.	PRODUCT NAME	COMPANY
1.	Shell VDC	
2.	Corexit 9527	
3.	Corexit 7664	
4.	Dasic Slickgone NS	
5.	Finasol OSR 52	
6.	Eco-logix AQ2000i – ProSpill OSD	Watertech Industrial Sdn Bhd
7.	Bio Solv [®] Dispersant	Euro-Circuit Technology Sdn Bhd
8.	Norchem OSD 570	Zastra Sdn Bhd
9.	AD Nano Aqueous Cleaner & Oil Dispersant	AD Nano Technology Sdn. Bhd.
10.	Keeen Oil Spill Control	Beaver Solutions Sdn Bhd
11.	EcoGuard HC Hydrocarbon	Kenanga Suria Sdn. Bhd.

SINGAPORE - RESOURCES AVAILABLE

EQUIPMENT

Company Name	Oil Spill Response Limited
Address	Loyang Offshore Supply Base 25C Loyang Crescent Blk 503 Tops Avenue 3, Singapore 506818
Website	www.oilspillresponse.com
24-Hour Contact	+65-6266-1566
Fax	+65-6266-2312
Email	Singaporedms@oilspillresponse.com

OIL SPILL RESPONSE RESOURCES

Description	Quantity	Unit
Offshore booms	3,453	Meters
Inshore booms	7,705	Meters
Response vessels and workboats	1	Set
Dispersants	230,000	Liters
Aerial dispersant system	1	Package
Recovery skimmers	38	Units
Transfer pumps	32	Systems
Temporary storage	767	Tons
Hydraulic power packs	13	Sets
Communications systems	Several Sets of Satellite phones & walkie talkies	
Computer Trajectory Modelling (OilMap)	4	License

OSRL Wide Area Aerial Dispersant Delivery Hercules aircraft in this region is station at Senai International Airport, Malaysia.

For more information, it can be found on corporate website: [Aviation Resources \(www.oilspillresponse.com\)](http://www.oilspillresponse.com)

OIL SPILL DISPERSANTS

Name of dispersant	Type
Slickgone	LTSW & NS
Finasol	OSR52

EQUIPMENT

Company Name	T&T Salvage Asia Pte Ltd
Address	29 Tuas Avenue 4, Singapore 639379

Website	www.ttsalvage.com
24-Hour Contact	+1 713 534 0700
Fax	+65-6591-5288/+65-6591-5289
Email	OSR-SG@ttsalvage.com

OIL SPILL RESPONSE RESOURCES

Description	Quantity	Unit
Desmi Ro Boom 1800 Boom on Reel	1000	Meters
Lamor Ro Boom 1500 Boom on Reel	500	Meters
Ro Boom 1000 Boom on Reel	500	Meters
Canadyne Fence Boom on Reel	300	Meters
Portable Spray Arm	2	Set
Vikoma KOMARA 20K Disc Skimmer	1	Set
DESMI Combination Skimmer	2	Set
Vikoma MiniVac Beach Cleaner	2	Set
10 ton Fastank Storage Tanks	10	Units
Absorbent Booms	25	Bales
Absorbent Pads	25	Bales

OIL SPILL DISPERSANTS AVAILABLE

Name of dispersant	Quantity (liters)
Redox Oil Spill Dispersant	3,000

LIST OF SALVAGE CONTRACTORS

T&T Salvage Asia Pte Ltd 29 Tuas Avenue 4, Singapore 639379 +1 713 534 0700 E-mail: OSR-SG@ttsalvage.com www.ttsalvage.com	SMIT Salvage 23 Gul Road, Singapore 629356 Tel: (65) 66684222/ 68989222 Fax: (65) 66684333 / 68989333 E-mail: salvage@smit.com Website: www.smit.com
Singapore Salvage Engineers Pte Ltd 23 Shipyard Road, Singapore 628129 Tel: (65) 6775 7653 / (65) 6775 3972 E-mail: francis@singaporesalvage.com Website: www.singaporesalvage.com	Resolve Salvage & Fire (Asia) Pte Ltd 15 Pandan Road, Singapore 609263 Tel: (65) 6635 3300 Fax: (65) 6294 7679 E-mail: bwiebe@resolvemarine.com Website: www.resolvemarine.com
Zale Offshore Response 48 Penjuru Road, Singapore 609152 Tel: (65) 6777 9990 / (65) 98283520 E-mail: latif@kimheng.com.sg Website: www.zaleoffshore.com.sg/	

LIST OF APPROVED DISPERSANTS

NO.	PRODUCT NAME	COMPANY
1.	0142 SDLTX	Shell Eastern Petroleum (Pte) Ltd
2.	0143 BUKOM KLEEN	Shell Eastern Petroleum (Pte) Ltd
3.	3213 PREMIUM OIL SPILL DISPERSANT	Vance Chemicals Pte Ltd
4.	3333 PLANT-BASED OIL SPILL DISPERSANT	Vance Chemicals Pte Ltd
5.	AA 138 HEAVY DUTY/ DR 8205 POWER	Vance Chemicals Pte Ltd
6.	3H6	Hong Huat Hung Ind Pte Ltd
7.	A 3510 CONCENTRATED OIL SPILLAGE DISPERSANT (CONCENTRATE) (1+9)	Apex Chemicals (S) Pte Ltd
8.	A-290	Apex Chemicals (S) Pte Ltd
9.	A-510	Apex Marketing & Services (S) P L
10.	A8-401 (SOLVENT BASED)	Applied Chemicals (S) Pte Ltd
11.	ACE 7013 OIL SPILL DISPERSANT	Ace Chemical International Pte Ltd
12.	ACTIVE 55 OIL SPILL DISPERSANT	Active Chemicals Industry
13.	AGMA OSD SUPERCONCENTRATE	Lucey Export Supply (P) Ltd
14.	AKRON SUPER OIL SPILL DISPERSER	Akron (S) Pte Ltd
15.	AMERICHEM 841	American International Industries
16.	AQ2000 OIL SPILL DISPERSANT BIODEGRADABLE	Eco-Logix Pte Ltd
17.	AQUAQUICK 2000	East Asia Maritime Pte Ltd
18.	ARROW EMULSOL L W	William Jacks & Co (S) Pte Ltd
19.	AT - 502B	A.T. Chemical Pte Ltd
20.	AT 502	A.T. Chemical Pte Ltd
21.	AT 502 OIL SPILL DISPERSANT	A T Engineering & Trading P L
22.	AT 780 WATER BASE OIL SPILL A.T. (CONCENTRATE) (1+15)	A.T. Chemical Pte Ltd
23.	B	F-J Marketing Services
24.	B.P. EX 1	B P Singapore Pt Ltd
25.	BANNER OSD-LTX (SAMPLE B)	Banner Chemicals & Services P L
26.	BASOL COASTGUARD S OIL DISPERSANT	Basol (S) Pte Ltd
27.	BATCH #Q0120 (IMPROVE COLLOIDAL SPILL CLEANUP AGENT) (CONCENTRATE) (1+15)	Unique Product Inc
28.	BATCH #Q0120 (IMPROVE COLLOIDAL SPILL CLEANUP AGENT) (CONCENTRATE) (1+30)	Unique Product Inc
29.	BC-SL50	Beston Chemical Pte Ltd
30.	BELL 6062 OIL SPILL DISPERSANT	Continental Chemical (Far East) P L
31.	BIO SOLVE (CONCENTRATE) (3+97)	Specialty Singapore
32.	BIOSOLVE SPILL RX	Chemrez Technologies, Inc
33.	BN	F-J Marketing Services
34.	BP 1100WD (CONCENTRATE) (1+9)	BP Singapore Pte Ltd
35.	BP 1100X	BP Singapore Pte Ltd
36.	BP Dispersant S	BP Singapore Pte Ltd

NO.	PRODUCT NAME	COMPANY
37.	BW 503 OSD (1:1)	Bayswater Shipping & Forwarding Pte Ltd
38.	C-295 SPECIAL	Cito Corporation (S) P L
39.	CAMI OSD-1B	Ng Teow Yhee & Sons (P) Ltd
40.	CASTROL OIL SPILL DISPERSANT	Castrol (Far East) Pte Ltd
41.	CASTROL TECHNICLEAN OSD 1	Castrol Singapore Pte Ltd
42.	CB 602 (CONCENTRATE) (1+9)	KSL Marketing & Services
43.	CHEMFORM - QUICK BREAK	Chemical Formulators Pte Ltd
44.	CHEMKLEEN OSDA-JAC	Chemitreat Pte Ltd
45.	CHEMKLEEN OSDA - N	Chemitreat Pte Ltd
46.	CHEMKLEEN OSDA - NY	Chemitreat Pte Ltd
47.	CHEMKLEEN OSDA JAC	Chemitreat Pte Ltd
48.	CHEMKLEEN OSDA-CD (1+9)	Chemitreat Pte Ltd
49.	CHEMKLEEN OSDA-LTX	Chemitreat Pte Ltd
50.	CHEMKLEEN OSDA-NY	Chemitreat Pte Ltd
51.	CHEMKLEEN OSDA-NY	Chemitreat Pte Ltd
52.	CHEMKLEEN OSDA-NY (1+0)	Chemitreat Pte Ltd
53.	CHEMLEEN OSDA-CD (CONCENTRATE) (1+9)	Chemitreat Pte Ltd
54.	CHEMLEX OSD-OIL SPILL DISPERSER & EMULSIFIER	Chemlex (F.E.) Pte Ltd
55.	CHEMPAC OIL SPILL DISPERSANT	Chempac International
56.	CHEM-SLICK	Chemical Manufacturers P L
57.	CHIMISOL TC66 SUPERDETERGENT	Ng Teow Yhee & Sons (S) Pte Ltd
58.	CHIMSPERSE 2000 SG	Chimec Asia Pacific Pte Ltd
59.	CITO C-290	Cito Corporation (S) Pte Ltd
60.	COREXIT 3076 (CONCENTRATE) (1+9)	Energy Chemicals Asia Pacific (Exxon Chemical Simco Pte Ltd)
61.	COREXIT 8667	Esso Singapore Pte Ltd
62.	COREXIT 9500 (CONCENTRATE) (1+3)	Nalco/Exxon Energy Chemical P L
63.	COREXIT 9503 (CONCENTRATE) (1+4)	Energy Chemicals Asia Pacific (Exxon Chemical Simco Pte Ltd)
64.	COREXIT 9517 (CONCENTRATE) (1+4)	Essochem International Ltd
65.	COREXIT 9527 OIL DISPERSANT (CONCENTRATE) (1+9)	Exxon Chemicals Singapore
66.	DASIC PRODUCT, SLICKGONE L. T.2	Kampmas Pte Ltd
67.	DASIC SLICKGONE LTSW	Dasis International Ltd
68.	DASIC SLICKGONE NS	Dasic International Ltd
69.	D'BOND OIL SPILL DISPERSANT	CSG Industries Pte Ltd
70.	DISPEREP 8 (CONCENTRATE) (1+9)	Aimecs Technologies
71.	DISPERS IT/SPILL GONE	Gaines Laboratories Pte Ltd
72.	DOLPHIN D-100 OIL REMOVING AGENT	OSCO Columbia Shipping Services P L
73.	DREWCLEAN OS	Drew Amerold (S) Pte Ltd
74.	DUPREX OSD	McAsia Contract Manufacturing
75.	DX-21 (A non-solvent biodegradable)	Halimah Trading
76.	EC6A	Green Clean Dynamics Pte Ltd
77.	ECO-SAFE OIL SPILL DISPERSANT	Admiral Chemical Supplies
78.	EMULSOL L.W.	Golden Arrow Chemicals Pte Ltd

NO.	PRODUCT NAME	COMPANY
79.	EMULSOL lw	Teclu Pte Ltd
80.	ENERSPERSE 1037 (CONCENTRATE) (1+9)	BP Singapore Pte Ltd
81.	ENERSPERSE 1100	BP Singapore Pte Ltd
82.	ENVIENG OSD (CONCENTRATE) (1+9)	Envieng Pte Ltd
83.	ENVIR OSD 63	Northland Pte Ltd
84.	EUROLUBE OSD - CD (CONCENTRATE) (1+6)	United Resources Marketing Svc P L
85.	LUBRICHEM OSD	Lubrichem International P L
86.	EON-SPILL 257	PT Eonchemicals Putra
87.	EVERTEC ETC403 OIL SPILL DISPERSANT	Kwong Soon Chings Trading (S) P L
88.	FALCHEM DISPERSE	Enerchem (S) Pte Ltd
89.	F.O.S.S. X-3125	Marinetrade (Singapore) Pte Ltd
90.	FALCHEM SB OIL SPILL DISPERSANT	Enerchem (S) Pte Ltd
91.	FC 602	Falchem (S) Pte Ltd
92.	FINASOL OSR 2	Paterson, Simons & Co (S) P L
93.	FINASOL OSR 52 OIL SPILL DISPERSANT (1+30)	Totalfinaelf (S.E. Asia) Pte Ltd
94.	FORMULA 1111 (EURO-OIL SPILL DISPERSANT) WATER BASE	United Resources Marketing Svcs P L
95.	FORMULA 2000	United Resources Marketing Svcs P L
96.	FORMULA 3070 OSD NATURAL CITRUS SOLVENT (CONCENTRATE) (1+6)	United Resources Marketing Svc P L
97.	FORMULA 3075 3 rd Generation OIL SPILL DISPERSANT (WATER BASE) (1+10)	United Resources Marketing Svc P L
98.	FORMULA 3080 UPGRADE ENVIRON OIL SPILL DISPERSANT (WATER BASE)	United Resources Marketing Svcs P L
99.	FORMULA 3081 CITRUS OSD/WATER BASE	United Resources Marketing Svcs P L
100.	GAMLEN OIL DISPERSANT - LT	Gemlen (Australasia) Pte Ltd
101.	GIBSON OIL SPILL DISPERSANT, SPERSOL	Bolter & Simon (Pte) Ltd
102.	G-LOX	Guardian Laboratories Pte Ltd
103.	GOLD COAST - PREMIER 99	Lubricol Marketing Services
104.	GOLD CREW SAMPLE #1026 (CONCENTRATE) (1+10)	Alton International (S) Pte Ltd
105.	GOLDKEM 3101 (A) (SOLUBLE OIL SPILL DISPERSANT) (CONCENTRATE) (1+9)	CSC Kemico Pte Ltd
106.	GOLDKEM 3101 (S) (SOLVENT BASE)	CSC Kemico Pte Ltd
107.	GTP108 OSD	Green Tropic Products Pte Ltd
108.	HEXAPROTE 6.141	Hexol Chemicals (S) Pte Ltd
109.	HEXAPROTE 6.141	A.I.M. Chemical Industries P L
110.	HEXAPROTE 6147 OSD	A.I.M. Chemical Industries Pte Ltd
111.	HILLBRO OSD - 300 (CONCENTRATE) (1+5)	Hillbro Chemicals and Trading

NO.	PRODUCT NAME	COMPANY
112.	HILOX	Western Agencies Pte Ltd
113.	HYDROSOL SE-4	The Babbitt Trading Pte Ltd
114.	INIPOL IPC (CONCENTRATE) (1+9)	Atochem South East Asia Pte Ltd
115.	JW-602	J & W Marketing Singapore
116.	JW-602	J & W Marketing
117.	KAY KLEEN	Kay Hin
118.	KD-800	Hydrochem (S) Pte Ltd
119.	KLEN 1808	Klenco (Singapore) P L
120.	KLEN 1808	Klenco (Singapore) Pte Ltd
121.	MAGNA 1100	Magna (Far East) Chemical P L
122.	MAGNA 1100 (OSD)	Magna (F.E.) Chemical P L
123.	MAGNUS MAGNOTOX	Economics Laboratory (S) P L
124.	MAR-KEM C-KLEEN 1	Mar-Kem (Far East) Pte Ltd
125.	MARKEM C-KLEEN 2	Mar-Kem (Far East) Pte Ltd
126.	MARKEM DISPERSANT "SAMPLE-3" (CONCENTRATE) (1+10)	Markem (Far East) Pte Ltd
127.	MASTER O.S.D.	Master International Asia Pacific Sales & Marketing H.Q. : Master Chemical
128.	MATSUMOTO "SEAGREEN 805"	Kashiwa Co Ltd
129.	MEBD/21 - 0119 SDLBX	Shell Eastern Petroleum (Pte) Ltd
130.	MM3213 PREMIUM OIL DISPERSANT MR MCKENIC (1+1)	Isochem International Pte Ltd
131.	MILEX PLUS CONCENTRATED	Kian Gwan Engineering P L
132.	MILEX PLUS RATIO 1:10	Kian Gwan Engineering P L
133.	MILEX PLUS RATIO 1:5	Kian Gwan Engineering P L
134.	MM OSD - LOW TOXICITY	Magnus Maritec International Inc
135.	NALFLEET MAXICLEAN 2	Nalco Pacific Pte Ltd
136.	NATURES' WAY	J & W Marketing
137.	NATURES' WAY OIL SPILL DISPERSANT (CONCENTRATE) (1+20)	Advance Environmental Control
138.	NC 1602 OIL SPILL DISPERSANT	Nejilock Technologies Pte Ltd
139.	NEOS AB 3000	Neos Chemical Singapore Ltd
140.	NEOS AB3000t	Neos Chemical (S) Pte Ltd
141.	NORCHEM OSD 570	Goldcrest International
142.	NORCHEM SEAQUEST 680WBC	Goldcrest International
143.	NORCHEM SEAQUEST 680WBC II	Goldcrest International
144.	NORCHEM XCELL 58 SEACARE OSR	Goldcrest International Spore Pte Ltd
145.	NUTRO PRODUCTS CORPN SDK-706	UNO Technical Supply Co
146.	OGR-200	Calfonex Enterprises
147.	OIL DISPERSANT OSDA	Chemitreat Pte Ltd
148.	OIL GONE H.D./OIL AWAY H.D. (CONCENTRATE) (1+9)	Gaines Laboratories Pte Ltd
149.	OIL SPILL DISPERSANT	Aqua Chemicals (S) P L
150.	OIL SPILL DISPERSANT	Cramoil Trading Company
151.	OIL SPILL DISPERSANT A	Protek Chemicals & Engrg P L
152.	OIL SPILL DISPERSANT AT-1	Singmarine Dockyard & Engrg P L
153.	OIL SPILL DISPERSANT B	Protek Chemicals & Engrg P L

NO.	PRODUCT NAME	COMPANY
154.	Oil Spill Dispersant Formula 3081	United Resources Marketing Services Pte Ltd
155.	OIL SPILL DISPERSANT 90	F-J Marketing Services
156.	OIL SPILL DISPERSANT 106	F-J Marketing Services
157.	OIL SPILL DISPERSANT 112	F-J Marketing Services
158.	OIL SPILL DISPERSANT N/F	Chemo Hellas Ltd
159.	OIL SPILL DISPERSANT/LT	Drew Ameroid (Singapore) Pte Ltd
160.	OIL SPILL EMULSIFIER NO. 1	Drew Ameroid (S) P L
161.	OIL SPILL EMULSIFIER#1	Drew Ameroid (Singapore) Pte Ltd
162.	OILCHEM W-320	Oilchem Pte Ltd
163.	OILL SPILL DISPERSANT 7013 (BATCH 990526)	D & R Chemicals
164.	OILSPILKLEEN (CONCENTRATE) (1+10 FRESH WATER)	Chemical Laboratory (S) P L
165.	OSD "A"	Diversey (Far East) Pte Ltd
166.	OSD "B"	Diversey (Far East) Pte Ltd
167.	OSD "E"	Diversey (Far East) Pte Ltd
168.	OSD 540	Kim Song Hardware & Oilfield Supply Pte Ltd
169.	OSD LT 200	Singapore Institute of Standards & Industrial Research
170.	OSD S1	Singapore Institute of Standards & Industrial Research
171.	OSD S2	Singapore Institute of Standards & Industrial Research
172.	OSD S3	Singapore Institute of Standards & Industrial Research
173.	OSD S4	Singapore Institute of Standards & Industrial Research
174.	OSD S5	Singapore Institute of Standards & Industrial Research
175.	OSD YC-99 (YUDHISTIRA CHEMICALS) (CONCENTRATE) (1+5)	PT Yudhistira Surya Graha
176.	OSDA XE-10	Chemitreat Pte Ltd
177.	OSDA-N (7 MAY 1990)	Chemitreat Pte Ltd
178.	OSR L.T.	Gamlen Chemical Co (Australasia)
179.	PCM OSD-20	Piaget Chemicals & Manufacturing
180.	PCM-OSD-50 (CONCENTRATE) (1+9)	Piaget Chemicals & Manufacturing
181.	PCM-OSD-60 (CONCENTRATE) (1+9)	Piaget Chemicals & Manufacturing
182.	PENACARE 768	Eastern Lloyd (Trading) P L
183.	PERP - KLEAN 868	Eastern Lloyd (Trading) P L
184.	PETROTECH PTI - 25 BATCH #32 PR	Petrotech Industries Ltd
185.	PROACT 4050 (1+10)	Proact Chemicals (S) Pte Ltd

NO.	PRODUCT NAME	COMPANY
186.	RAPIDSPERSE	Rapid-Kleen Trdg & Services
187.	REDOX	Redox Chemical Pte Ltd
188.	REDOX OIL SPILL DISPERSANT	Redox Chemical Pte Ltd
189.	REDOX OSD (M)	Redox Chemical Pte Ltd
190.	REDOX OSD 19 MPA 2	Redox Chemical Pte Ltd
191.	REDOX PREMIUM GRADE OIL SPILL DISPERSANT	Redox Chemical Pte Ltd
192.	REDOX CLEANMASTER OIL SPILL DISPERSANT	Redox Chemical Pte Ltd
193.	ROCHEM OIL SPILL DISPERSANT (CONCENTRATE) (1+4)	C F Sharp Trading Co Pte Ltd
194.	ROCHEM OSR WSA	Rochem Asia Ltd
195.	RO-OSD (WATER BASE) FORMULA 3080	United Resources Marketing Svc P L
196.	SC-1000 COLLOID CLEANER (CONCENTRATE) (1+20)	I-Zen Singapore
197.	Seacare EPA	Unitor Ships Service (S) Pte Ltd
198.	SEACARE OSD	Unitor Ships Svs (S) P L
199.	SEACARE OSD	Unitor Ships Service (S) Pte Ltd
200.	SEACLEAN	Barnes Enterprise
201.	SEACLEAN III	Barnes Chemicals & Engrg P L
202.	SEACLEAN L T LAB	Gamlen Chemical Co (Australasia)
203.	SEASCAPE	Strongchem
204.	SERVO CD 2000	Servo Singapore
205.	SHELL DISPERSANT VDC (CONCENTRATE) (1+9)	Shell Chemical Co of S'pore
206.	SHELL SHIPCARE OIL SPILL DISPERSANT (WATERBASED)	Shell Eastern Trading Pte Ltd
207.	SHELL SHIPCARE OIL SPILL DISPERSANT (SOLVENT BASED)	Shell Eastern Trading Pte Ltd
208.	SLICKGONE L.T.E. (CONCENTRATE) (1+7)	Kampmas Pte Ltd
209.	SLICKGONE LT4	Dasic International Ltd
210.	SLICKGONE LTD (CONCENTRATE) (1+7)	Kampmas Pte Ltd
211.	SLICKGONE LTSW (CONCENTRATE) (1+9)	Dasic International Ltd
212.	SMF-400	Bulk Trade Pte Ltd
213.	SOILAX OSD (CONCENTRATE) (1+9)	Economics Laboratory (S) P L
214.	SOILAX SEA CLEANER (CONCENTRATE) (1+9)	Economics Laboratory (S) P L
215.	SOLUTION 2000	Korex Industrial Product (S) Pte Ltd
216.	SPILCARE-88	Spilcare-O Metaclen Pvt Ltd
217.	SPILCARE-TS	Spilcare-O Metaclen Pvt Ltd
218.	SUPERDISPERSANT 25	Seahorse Limited
219.	SUPERIOR SC-664	Superior Chemicals & Equipment
220.	SUPERKLEEN OIL SPILL DISPERSANT	Schirmer's Oilfield Supp & Serv
221.	Tech OSD 606A/LT	Performance Janitorial Supplies

NO.	PRODUCT NAME	COMPANY
222.	TOHO EMULSON E-390	Toyo Menka Kaisha Ltd
223.	TRIKEM 602	Trikem Chemicals Pte Ltd
224.	VECOM - B - 14-25 GL	Vecom Singapore (Pte) Ltd
225.	VECOM B-14-25 GL	Vecom (S) Pte Ltd
226.	WALI - 7013	TSC Chemicals (S) Pte Ltd
227.	WELSON OSD-SB	Welson Chemical Ltd
228.	WELSON OSD-WB	Welson Chemical Ltd
229.	WM 610 OIL SPILL DISPERSANT	Waresquip Marketing
230.	XE-10A	Chemitreat Pte Ltd
231.	XE-42	Chemitreat Pte Ltd
232.	XE-DOS	Chemitreat Pte Ltd
233.	YUNISOL FL-70	Guan Hock Trading Co (P) Ltd
234.	ZM 602	Zonelux marketing Pte Ltd

COST ANALYSIS REPORT

Pollution Contingency Team Costing

Activity No. _____

Incident _____

Dates _____
_____**Date Personnel Manpower Costs**

Employee	Normal Response Centre/ Activity	Days	Reg. Hours	Reg. Hourly rate	Reg. Hourly Cost	O/T Hourly @ 1½	O/T Hourly @ 2	Total O/T Cost	Total Cost

Sub-Total _____

Casual Labor Costs _____

Ships Surveyors _____

Administrative Costs _____

(per man/ day)

TOTAL MANPOWER COST

VESSEL COSTS

Vessel	Days in Service	Daily Rate	Total

TOTAL VESSEL COSTS:

.....

POLLUTION CONTAINMENT AND RECOVERY EQUIPMENT

Item	Daily Rate	Days Used	Length*	Total

TOTAL EQUIPMENT COSTS:

* Length – where applicable

OTHER ITEMS
(20% RESTOCKING CHARGE ON ALL CONSUMABLE MATERIALS)

	TOTAL

TOTAL ITEM COSTS: _____

.....

MATERIALS COSTS (ONLY MATERIAL CONSUMED TO BE SHOWN)

Description	Quantity	Unit Price	Total

TOTAL MATERIAL COSTS:

20% Restocking Charge _____

TOTAL _____

VEHICLE COSTS

Vehicle	Hours/Days in use	Hourly/Daily Rate	Total

TOTAL VEHICLE COSTS: _____

SUMMARY

Manpower Costs (Page 1)	:	
Vessel Costs (Page 2)	:	
Pollution Containment & Recovery	:	
Equipment (Page 2)	:	
Other Items (Page 3)	:	
Material Costs	:	
Vehicle Costs (Page 3)	:	
TOTAL CHARGE		

Prepared By:

()

Designation:

**POLLUTION CONTROL TEAM
DAILY WORK REPORT**

DATE	
PLACE	
WEATHER	
WORK PERIOD Start End	
HOURS WORKED (Normal Overtime)	
(List all personnel, use reverse side if required)	
SUPERVISOR	
TOTAL MAN HOURS	
CONTRACTOR(S) ON SITE	
RENTAL EQUIPMENT ON SITE	

DAILY PERFORMANCE CHECKLIST

Contractor	
Supervisor	
Date	
Job Description	
Material Utilized	
Equipment	
Number of men on Job	
Daily Operations Commence	
Hour Secured	
Number of Disposal Loads	
Submitted by: On-Scene Coordinator/ Representative	

Notes

1. For the purpose of standardization and to facilitate the claims process for clean-up costs and pollution damage, information relating to the operation's location, actions taken, personnel and equipment be extensively reported by completing the Cost Analysis Form as suggested.
2. Claims should be submitted through appropriate compensation regime's focal point of respective member States. Allowable claims should be made according to the regimes and to include cost relating to clean-up, preventive measures, conducting environmental risk assessment study and environmental damage as provided for in the IOPC FUND 1992 Claims manuals whose principles are applicable to both CLC and FUND claims.
3. All parties involved submit the completed forms to their respective National Focal Point together with all documents pertaining to expenses including receipts, timesheets, log sheets and invoices. Submission should also include details of equipment (e.g., specifications) as well as details of experts (e.g., nature of expertise and contributions).

SAMPLING PROCEDURES**1. Sampling is to be Conducted as Follows:**

- A. Sampling on board ships shall be witnessed by persons representing the polluters and one other witness.
- B. All samples shall be sealed.
- C. A clean glass or plastic container (Polythene) measuring 2 liters shall be used.
- D. All samples taken shall not exceed 2/3 of the sampling container.

2. Samples from Surface Sea Water

- A. Oil samples or samples containing at least 1000 ml of oil must be obtained from:
 - All reasonable levels within the source (ship) from the engine room, cargo tank, fuel tank, ballast tank, bilges, etc.
 - The nearest level to the ship or the thickest oil level area.
- B. Samples taken must contain a lot of oil and minimum possible amount of water, and
- C. Samples must be taken within 12 hours from the incident and prior to the use of dispersants.

3. Samples from Sand and Rocks

- A. Oil or viscous oil attached to rocks, wood and other matters must be scrapped off and kept in sample container.
- B. For weathered oil, the lumps are to be collected and kept inside sample containers.
- C. For oil, which has sunk into sand, sampling can be done by gathering the polluted sand into a sample container.
- D. Birds, seaweed or debris, which are stained by the oil, must also be kept in a special container.

4. Labeling of Samples

All samples shall be sealed well and labeled with the following information:

- A. Date and time of sampling
- B. Place of sampling
- C. Name and serial number for each sample
- D. Name of officer / agency who took the sample
- E. Type of analysis required (to determine type of oil and source)

5. Storage and Transport of Sample

- A. During transportation samples must be kept in wooden box to avoid damage or breakage
- B. Sample must be protected from heat during storage and transportation.
- C. If take over 12 hours to transport samples to Chemistry Department, all samples must be kept in ice.
- D. Labeled and sealed samples shall be sent to Chemistry Department for analysis as soon as possible.
- E. Before samples are send to Chemistry Department the department needs to be notified to make necessary preparations.
- F. All samples must be accompanied by the official from provided by Department of Environment; and
- G. A written notification must be obtained from the Chemistry Department for acknowledgement of the receipt of the sample.

**Information Paper on 2-Day Revolving Fund Committee - ITOPF Workshop
(RFC-ITOPF Workshop)
20th & 21st February 2024
Village Hotel Bugis, Singapore**

INTRODUCTION

1. The RFC-ITOPF Workshop was conducted by ITOPF and held in Singapore on the 20th & 21st February 2024 at the Village Hotel Bugis. Expert advisors for oil spill incidents from ITOPF were invited to guide, train, and further improve Littoral States capabilities in managing oil spill incident. The workshop was conducted upon a proposal by the Littoral States during the Revolving Fund Committee (RFC) Technical Meeting in 2023 to have experts from ITOPF to provide the training on oil spill responses.

2. The workshop was attended by 5 participants each from the maritime and environmental protection agencies from the three Littoral States of Indonesia, Malaysia and Singapore. The full list of participants can be found under **Annex A**.

WORKSHOP HIGHLIGHTS

Opening Address

3. The workshop was opened by the RFC Technical Chairman, Capt. Chong Jia Chyuan, thanking every participant that attended the workshop as well as for ITOPF for conducting the workshop. The Chairman wished the participants a productive and fruitful workshop session.

Introduction

4. Officers from ITOPF started the workshop with an overview of the topics covered and setting the expectations so that all participants were aware of the areas that will be covered over the course of the workshop. Some of the key topics covered as follow:

Topic 1: Communication and Coordination

5. In Topic 1, it mainly looks at the processes and best practices of communication that is critical when response is initiated during an oil spill incident. Early relay of key information is crucial during an oil spill incident to provide immediate alert to all Littoral States to ensure quick action can be taken. ITOPF advisors provided insights towards notification processes, information sharing and co-ordinating meetings. With aspect to these, platform & tools that may be useful was shared by the officers in addition to seeking aid from government agencies during an oil spill incident.

Topic 2: Response Efficacy and Integration

6. Topic 2 explores the various resources of the Littoral States and the synergy transition of such capabilities in transboundary response. Surveillance and mobilisation of equipment and resources were discussed. Key areas such as contingency planning, aerial observations and protective strategies were also shared. Contingency planning is based on a “tiered response” framework from tier-1 response for small spills to a tier-3 approach when a larger area is impacted.

7. Aerial observations was also shared to be essential during the initial phase of response as it will aid in assessing the location and extend of contamination. Such observation will assist with the appropriate deployment of resources especially along threatened coastlines. Prioritisation of the resources can also be done based on the findings received from an aerial observation. Protective strategies can also be put in place to ensure land resources are protected from detrimental effects especially those that are sensitive to oil pollution such as fish farms, mangroves, and beaches.

Topic 3: RFC Funds Utilization Procedures and synergy with International Compensation Regimes

8. In this topic, it mainly deals with the liability, claims and compensation in the strait's context. The topic look at the differences in the claim submission and settlement between the Littoral States within the RFC agreement. ITOPF officer shared the four international conventions for the basis of compensation in majority of the country. 1. Civil Liability Convention (CLC), 2. The Fund Convention, 3. The Bunkers Convention, 4. The Hazardous and Noxious Substance (HNS) convention. For the Littoral States, it was highlighted that for the compensation to be settled promptly, there should be an agreed schedule rates for oil spill response resources and manpower with P&I Club & ITOPF. The workshop noted that there is provision in the RFC MOU for the utilization of the funds for any advance needed for clean-up operations related to ship-source oil spills.

Topic 4: Preparedness

9. ITOPF officer went through the Readiness Evaluation Tool for Oil Spills (RETOS) tool that provides guidance for industries and government to assess their oil spill response planning and readiness management. With the use of such tool, it allows Littoral States to understand their capabilities towards such incident and be able to fine tune their responses towards oil spill incidents by identifying key areas of improvement and integration.

Review of RFC SOP & Exercise Planning

10. Discussion ensued through the various workshop topics whereby pointers were generated for future improvement of the RFC SOP. Exercise planning was also carried out for the purpose of examining RFC SOP communication, response, compensation, and preparedness for the upcoming exercises over the next 2 years.

OUTCOME OF WORKSHOP

11. With the dynamic shipping traffic operating round the clock, the mission to ensure that the Strait of Malacca and Singapore (SOMS) is well taken care of for the safety of navigation and protecting the marine environment which requires close coordination and communication. This workshop provided the tools and knowledge required to achieve the above-mentioned. Individual Littoral States gained a better and more intrinsic understanding of the above and should be the objective when considering review of the RFC SOP in future.

12. The workshop created a platform whereby the Littoral States engaged in deeper discussion and understanding of the RFC SOP which leads to a series of possibilities to further enhance it in future. Some of the possible enhancement of the RFC SOP which arises through the workshop includes:

Communication and Coordination

- a) Developing a Common Operating Platform for sharing vital information for response planning and operation, this could be a GIS platform for example. Potentially hosting this via the RFC website. For this to proceed, an agreement on funding for website development would be required.
- b) Creating a rapid pre-approval process for cross-boundary response operations where self-interests are concerned.
- c) Where Liaison Officers may be concerned, there is a possibility for remote interaction using multi-media platforms. In the event that they may be mobilised, creating pre-approvals for cross-boundary deployment of Liaison Officers (LO) to enhance communication and coordination during an oil spill incident.
- d) Consider the possibility of a joint incident command centre that could be created either remotely, or physically within the lead country (if requested by the lead state) due to the potential implications of the incident.

Response Efficiency

- e) Pre-agreements in place for movement of resources and to navigate hierarchy for better decision-making.

RFC Funds Utilization Procedures and synergy with International Compensation Regimes

- f) Suggestions to review section 014 (Reimbursement Procedures) of the RFC SOP.
- g) ITOPF will provide recommendations of further guidance to be added within the SOP to accelerate the process of submitting claims.
- h) Exploring pre-agreement of rates (Malaysia and Indonesia to benefit from an MoU with ITOPF to help accelerate the claims process).

RETOS

- i) Application of RETOS at the national level of all Littoral States, to evaluate the National Oil Spill Contingency Plans, compare between countries, and ensure individual capability within the RFC is in good shape.

13. It will be important that the RFC or the individual Littoral States engage in such workshop or use it as a model to periodically enhance both RFC SOP and individual Littoral States National Oil Spill Contingency Plan by engaging all relevant stakeholders to a wider extent. Any changes to the RFC SOP based on enhancement possibilities will need to be discussed in future RFC technical meetings and updated accordingly in the RFC SOP moving forward.

LIST OF PARTICIPANTS

No.	Name	Country	Organization	Designation
1	Capt. Chong Jia Chyuan	Singapore	Maritime and Port Authority of Singapore	Senior Deputy Director (Operations)/ Port Master
2	Capt. Charles Alexandar De Souza		Maritime and Port Authority of Singapore	Deputy Director (Marine Environment and Safety)/ Deputy Port Master
3	Capt. Dilshad Ahmad		Maritime and Port Authority of Singapore	Principal Marine Manager (Operation Planning & Pilotage)
4	Mr. William Wong		Maritime and Port Authority of Singapore	Deputy Director (Emergency Preparedness Department)
5	Ms. Jane Tan		Maritime and Port Authority of Singapore	Assistant Director (Emergency Preparedness Department)
6	Mr. Muhammad Shahbaz		Maritime and Port Authority of Singapore	Port Chemist (Marine & Environment and Safety Department)
7	Mr. Arthaditya Kris Indrawan	Indonesia	Directorate General of Sea Transportation	Directorate Sea and Coast Guard Officer
8	Ms. Ika Aprilyaningtyas		Directorate General of Sea Transportation	Directorate Sea and Coast Guard Officer
9	Mr. Ruci Bambang Triandono		Directorate General of Sea Transportation	Directorate Sea and Coast Guard Officer
10	Mr. Miki Hambali		Directorate General of Sea Transportation	Directorate Sea and Coast Guard Officer
11	Mr. Fanny Raharjo Arianto		Directorate General of Sea Transportation	Law and International Cooperation Division Officer
12	Mr. Norjipin Bin Saidi	Malaysia	Marine Department	Director
13	Ms. Norina Frederick Sambang		Department of Environment	Senior Principal Assistant Director
14	Mr. Mohd Noor Haidzir Bin Mohd Fauzi		Marine Department	Senior Assistant Director
15	Ms. Azila Binti Haji Amran		Department of Environment	Assistant Director
16	Mr. Mohammad Zaini Bin Zainal		Maritime Enforcement Agency	Assistant Director

Proposal Paper for RFC Oil Spill Response Exercise Planning with ITOPF

**MARITIME AND PORT AUTHORITY OF SINGAPORE
THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

1. This paper set forth a proposal to set up a committee between 3 Littoral States and ITOPF to plan for the Oil Spill Table-top Exercise (TTX) and Oil Spill Exercise for 2024 & 2025 respectively. A recap of events moving forward as follow:

General Programme Plan for RFC Technical Meetings

Year	Description
2023-2024	<ul style="list-style-type: none">• Two-day ITOPF Workshop (brainstorming on exercise scenario planning)• One-day RFC technical meeting
2024-2025	<ul style="list-style-type: none">• Two-day IMO oil spill training• Two-day RFC technical meeting (with oil spill TTX)
2025-2026	<ul style="list-style-type: none">• Two-day RFC technical meeting (with oil spill exercise)
2026-2027	<ul style="list-style-type: none">• One-day RFC technical meeting

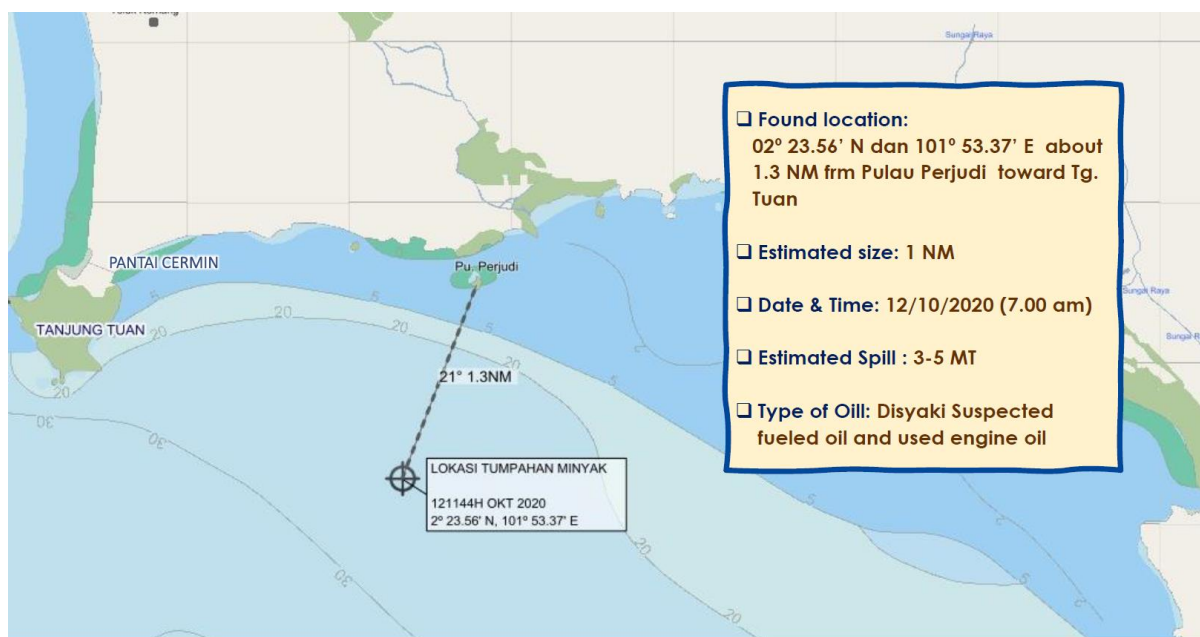
2. The format and details of the committee meeting as follows:
 - a) Meeting via online platform organized by Singapore.
 - b) The Committee will comprise of at least 2 officers each from the 3 Littoral States headed by Singapore.
 - c) Littoral States to nominate officers to take up the roles after the RFC Technical Meeting by 30 Apr 2024.
 - d) To discuss with ITOPF Officers' on providing advisory role.
 - e) Objective is to finalize the TTX and Oil Spill Exercise.
3. As such, we would like to seek comments and inputs from the Littoral States on the above plans to achieve Oil Spill TTX and Oil Spill Exercise.



Ministry of Natural Resources and Environmental Sustainability
(NRES)
Department of Environment (DOE)



OIL SPILL INCIDENT AT TANJUNG TUAN, MELAKA AND PANTAI CERMIN, NEGERI SEMBILAN

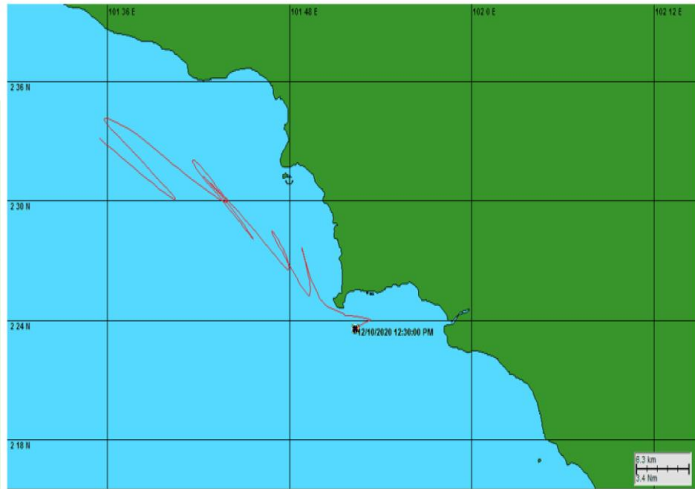


Oil Map Trajectory

Sources: DOE

12:30 PM 12 October 20

08:30 PM 12 October 20



JABATAN ALAM SEKITAR

2021 | Seksyen Kontigensi Tumpahan Minyak, Bahagian Air dan Marin

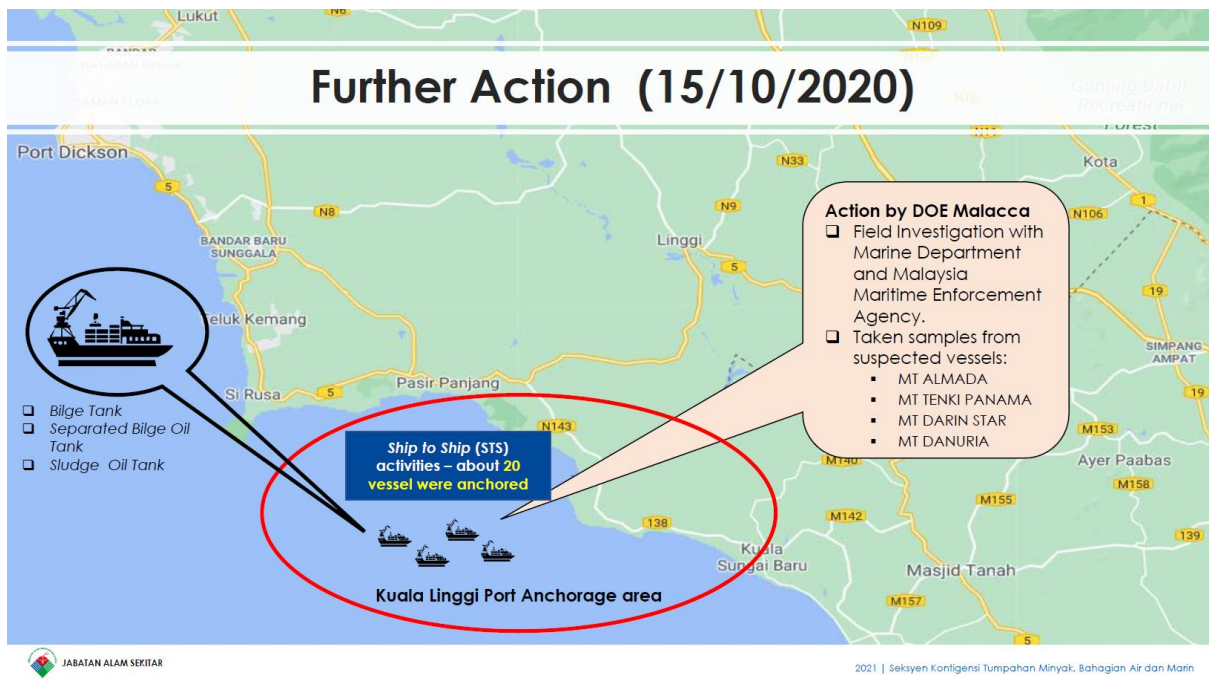
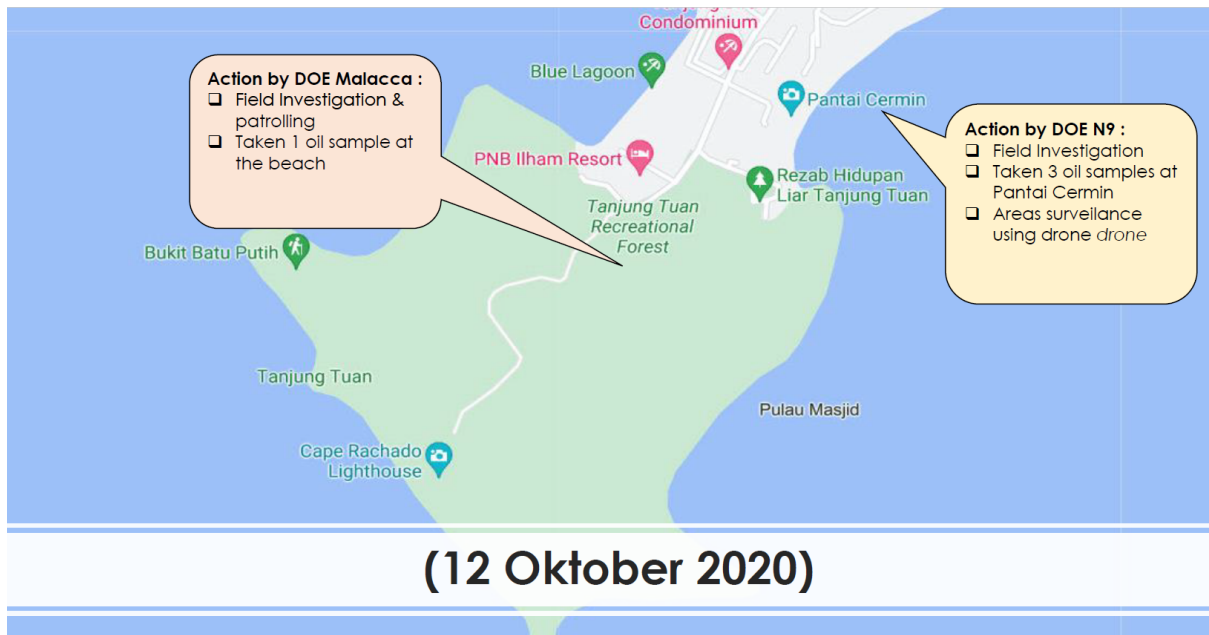




12/10/2020 – Tanjung Tuan, Melaka



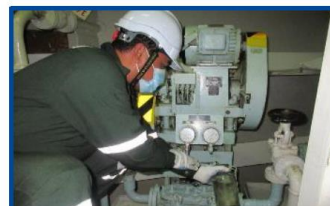
Areas
Surveillance -drone





JABATAN ALAM SEKITAR

Oil Sampling Activities



2021 | Seksyen Kontigensi Tumpahan Minyak, Bahagian Air dan Marin

Overall Oil Samples

	Oil Pollution areas	Vessel
Sampling location	i) Pantai Cermin ii) Sea water near Tanjung Tuan	i) MT Almada ii) MT Tenki Panama iii) MT Darin Star iv) MT Danuria
Number of sample	4 Samples	13 Sampel
Date of sampling	12/10/2020	15/10/2020

Oil Spill Clean up Activities



Oil Spill Clean Up Focus Areas

- ❑ 2 km at Pantai Cermin, Port Dickson Negeri Sembilan.
- ❑ 2.3 ha mangroves areas at Tanjung Tuan Melaka. Significant for *mud lobster* and *sea crocodiles* species,
- ❑ Sea water nearby Tanjung Tuan Melaka and Linggi Port anchorage areas.

Clean up activities at the sea - deployment of absorbent boom





Clean up activities at the beach and magroves areas - deployment of absorbent boom



Sweeping & Scooping



Litter collection and segregation

Clean up activities at the beach and magroves areas



Machineries for beach rejuvenation



Low pressure water jet at the gravel areas



Manual wiping of mangroves trees with pads



Rescue of Oiled Wildlife species

- Mud Lobster = 163 ekor
- King Fisher bird = 1ekor
- Snails = 9 ekor

BEFORE



AFTER

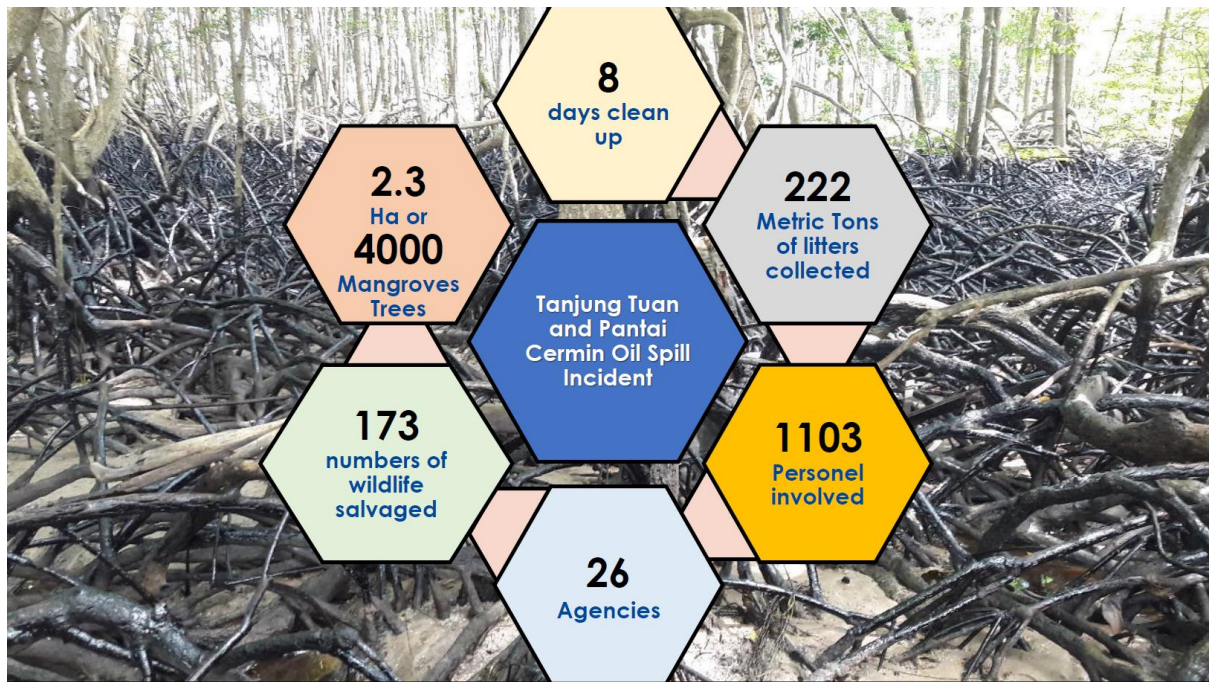


BEFORE



AFTER





Estimated expenditures

“RM134,397.59”

AGensi	JUMLAH (RM)
Malacca State Government	84,000.00
<input type="checkbox"/> OSRE and PPE <input type="checkbox"/> Food and Logistic	
PETRONAS	31,421.59
<input type="checkbox"/> Manpower <input type="checkbox"/> OSRE and PPE	
MALACHA SDN BHD	976.00
<input type="checkbox"/> OSRE and PPE	
JABATAN ALAM SEKITAR	18,000.00
<input type="checkbox"/> SW disposal	

CHALLENGES AND LESSON LEARNT

- i. Coordination of multi agencies
- ii. Financial constraint
- iii. Tracking the source of oil spill
- iv. Claim and compensation for unknown sources ?



**PROPOSAL PAPER FOR LITTORAL STATES TO ATTEND IMO LEVEL 3
TRAINING IN 2024/2025**

**MARITIME AND PORT AUTHORITY OF SINGAPORE
THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

OBJECTIVE

1. This paper sets out to propose the sponsorship of 5 delegates from each littoral state to attend the Oil Spill Response Management Training (IMO Level 3 Equivalent) in Singapore. Exact dates are to be confirmed and mutually agreed by all parties including the Littoral States and Oil Spill Response Ltd. as coordinated through the RFC Secretariat.

BACKGROUND

2. This IMO Level 3 course for decision makers has been divided into modules with corresponding exercises. This course develops decision-makers to Incident Commander Level and provides the technical knowledge required to initiate and terminate response. This course is the highest level of training designed for those in decision making roles within the Emergency Response Team. This course builds the delegates confidence and awareness to effectively perform the role of Incident Commander able to manage an Emergency Response Team, controlling and managing the clean-up operation and making considered decisions. Safe spill management is a subject that is thoroughly explored throughout the course. The course program is appended as follow:

Draft Course Program

Day 1	Day 2
<ul style="list-style-type: none">• Course Introduction• Overview of Oil Spill Response• Causes & Fates of Marine Oil Spill• Environmental & Economic Sensitivities• Contingency Planning• International Cooperation• Tabletop Exercise – Preparedness• Exercise Debrief• Assessment of Knowledge & Feedback	<ul style="list-style-type: none">• Review of Day 1 & Day 2 Introduction• Response Options• Hazards to Responders• Tabletop Exercise – Justification of Response Options• Exercise Debrief• Waste Management• Assessment of Knowledge & Feedback
Day 3	
<ul style="list-style-type: none">• Review of Day 2 & Day 3 Introduction• Spill Management• Spill Termination & Post Monitoring• International Convention, Claims & Compensations• Media Management• Case Study• Tabletop Exercise – Response• Exercise Debrief• Assessment of Knowledge & Final Feedback• Close Out	

RELEVANCE TO REVOLVING FUND COMMITTEE MEMBERS

3. The course focuses on the complex key responsibilities of oil spill management and enables participants managing an oil spill incident to learn about dealing with authorities / stakeholders, handling the media, ensure effective incident control, raise environmental awareness, understand legal and financial implications, do initial assessment, and plan strategic logistics deployment, manage operation, and monitor and make decision on termination of clean-up operations.

PROPOSAL FOR RFC TO PROVIDE FUNDING FOR SPONSORSHIP OF 15 DELEGATES TO ATTEND IMO LEVEL 3 TRAINING

4. The Singapore delegation proposes that RFC provides funding to sponsor 5 delegates from each littoral states to attend the Oil Spill Response Management Training (IMO Level 3 Equivalent) in Singapore. Details of the proposal are appended in the table below for consideration:

REASON FOR SELECTING OSRL

Accredited by the UK Nautical Institute, a non-governmental organisation (NGO) with consultative status at the International Maritime Organization (IMO), OSRL Certifications are recognised by the highest standards and accolades. OSRL is a Nautical Institute accredited training provider to the Oil, Gas and Shipping Industries providing courses to national and international globally recognised training standards such as IMO, MCA(UK) and BEIS(UK). OSRL Also provided a discounted price package of S\$26,000 for 15 pax instead of the usual S\$2,900 per pax which would cost S\$43,500.

Subject	Details
Programme	Oil Spill Response Management Training (IMO Level 3 Equivalent) in Singapore.
Date	4Q2024 to 1Q2025 (To be discussed)
Duration	5 Days 4 Nights
Organizer	Maritime and Port Authority of Singapore
Number of Participants from RFC	15 participants (5 participants from each Littoral States of Malaysia, Indonesia and Singapore)
Language	English
Venue	Singapore
Expenses	<p>The Revolving Fund Committee will cover the following expenses in accordance with the relevant laws and regulations:</p> <ul style="list-style-type: none"> (i) Economy Class Round-trip air ticket between the designated international airports; (ii) Accommodation; (iii) Subsistence allowance (iv) Training Venue
Estimated Total Cost	<p>Estimated S\$5,550 per person</p> <p>Total = S\$83,250</p> <p>(please refer to Annex for the breakdown of the cost)</p>

Breakdown of the estimated cost for the sponsorship for delegates from 3 littoral states to attend the Oil Spill Response Management Training (IMO Level 3 Equivalent)

	Cost Per Delegate (\$)	Number of Delegates	Total (\$)	Remarks
Course Participation Rate (Group)	N.A	15	26,000	Packaged price given by OSRL
Accommodation (5 days 4 nights)	1400	10	14,000	Training will be 3 full days, participants to fly in day before training and fly back day after training.
Air Ticket (Economy)	1000	10	10,000	
Subsistence Allowance	500	15	7,500	
Transport (Hotel/Airport and Hotel/Conference)	-	-	2,500	
Venue & AV requirements	-	-	23,250	Based on \$150 per person per day for meeting facilities and \$120 per person per dinner at hotel for 25 persons for 3 days training plus \$3000 for AV requirement and facilities.
Total			83,250	

Update to RFC Website – RFC – ITOPF Workshop

**MARITIME AND PORT AUTHORITY OF SINGAPORE
THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

1. This paper set forth an update on the RFC website on the completion of the 2-Day RFC-ITOPF Workshop. The update will spread awareness on the initiatives taken by RFC and the Littoral States in improving its response capabilities during a transboundary spill response incident.
2. In line with Malaysia effort in leading and developing of the RFC website to spread awareness of RFC activities and its objectives, Singapore would like to update the website as follow:
 - Update under “News & Update” on <https://rfcsoms.org/>
 - Title: 2-Day RFC-ITOPF Workshop
 - Information Paper on the 2-Day RFC-ITOPF Workshop as per agenda 6 & photos on conduct of workshop.
3. As such, we seek comments and inputs from the Littoral States as well as Malaysia’s advice on how we can proceed with the update on RFC website.

**CLOSING REMARKS BY RFC TECHNICAL MEETING CHAIRMAN SENIOR
DEPUTY DIRECTOR (OPERATIONS)/PORT MASTER, MARITIME AND PORT
AUTHORITY OF SINGAPORE**

**THE TECHNICAL MEETING OF THE REVOLVING FUND COMMITTEE
22 February 2024, Thursday
Village Hotel Bugis**

Distinguished Head of Delegation Indonesia, Mr. Jon Kenedi

Distinguished Head of Delegation Malaysia, Mr. Rosli Bin Osman

Mr. David Campion & Team from ITOPF. Head of Delegation of Singapore, Capt. Charles Alexandar De Souza, Mr. William Wong and Mr. Lee Jian Ming.

Ladies and gentlemen.

1. We have come to the end of a very fruitful and engaging RFC Technical Meeting 2024. I would like to thank all committee members from the Littoral States for attending today's meeting. Your cooperation and contributions have helped to make this meeting a success.
2. I believe that this meeting has allowed us to share our inputs and knowledge as an effective way to combat oil spill incidents. With the workshop conducted, I strongly believe that participants involved were able to learn from our experts and be able to use the knowledge garnered in their day-to-day operations especially in times of crisis relating to oil spills. For this, our ITOPF counterparts played an important role for their cooperation in conducting the workshop. I am grateful to the ITOPF team.
3. I would also like to express my gratitude towards the delegates from Indonesia, Malaysia and Singapore as well as Singapore RFC Technical Meeting organizing team and secretariat for convening this meeting. I hope that the consistent efforts and cooperation among the Littoral States can be upheld going forward. Let us strive together to work towards accomplishing the RFC objectives and carrying out the responsibilities of the RFC.
4. With that, I would like to draw our 2024 RFC Technical Meeting to a close. Thank you and may you enjoy the rest of the day and have a safe flight back to your homeland.

Thank you.

1. RFC – ITOFP Workshop
 2. RFC Technical Meeting
- (Feb 2024)

Muhammad Shahbaz
Port Chemist
HC/MES/MSPO Div.

Overview (5 days)

- **19th February 2024**
 - Arrivals of delegates (Workshop)
- **20th-21st February 2024**
 - Two-Day RFC-ITOPF Workshop
- **21st February 2024**
 - Arrival of delegates (Technical Meeting)
 - Welcome Dinner
- **22nd February 2024**
 - RFC Technical Meeting
 - Delegates Departure (Workshop)
- **23rd February 2024**
 - Delegates Departure (Technical Meeting)

Two-Day RFC-ITOPF Workshop

- 20th-21st February 2024



Two-Day RFC-ITOPF Workshop



Two-Day RFC-ITOPF Workshop

- **Topics discussed**

- I. Communication and Coordination**

- Processes and best practices of communication for quick response
 - ITOPF shared insights on the notification processes, platforms and tools that are useful in this aspect

- II. Response Efficacy and Integration**

- Resources that Littoral States can leverage on
 - Surveillance and mobilization of equipment/resources were discussed
 - Aerial observation was also known to be essential for the initial response
 - Protective strategies were shared to protect the environment

Two-Day RFC-ITOPF Workshop

- **Topics discussed**

- III. RFC Fund Utilization Procedures and Synergy with International Compensation Regime**

- Difference in the claim submission and settlement between the Littoral States within the RFC agreement
 - ITOPF shared on the four International Conventions
 1. Civil Liability Convention (CLC)
 2. Fund Convention
 3. Bunkers Convention
 4. Hazardous and Noxious Substance (HNS) Convention

Two-Day RFC-ITOPF Workshop

- **Topics discussed**

- IV. Preparedness**

- RETOS tool was shared
 - Such tool allows states to understand their response capability better and will be able to finetune them if required

- **Review of RFC SOP & Exercise Planning**

- Various discussion were done based on the workshop topics presented
 - Exercise planning was carried out to examine the SOP for the preparation of the TTX and Field Exercise in the coming two years

***Detailed information can be found in the Information Paper that will be shared in Agenda 6.2**

Welcome Dinner

- 21st February 2024



RFC Technical Meeting

- 22nd February 2024



Technical Meeting- Agenda Discussed

- **RFC SOP Update**
 - SOP were revised and updated accordingly by the respective littoral states
 - Revisions to the SOP were agreed by all parties present
- **Information Paper on the Two-Day RFC-ITOPF Workshop**
 - Overview was shared in the earlier slides
- **Proposal Paper for RFC Oil Spill Response Exercise Planning with ITOPF**
 - Committee will be set-up
 - At least two from each state
 - Conduct online meeting to plan for the upcoming Oil Spill TTX and Field Exercise in 2024/2025 and 2025/2026 respectively
 - ITOPF agree to take up advisory role

Technical Meeting- Agenda Discussed

- **Sharing on oil spill incident on 12th October 2020 by Malaysia**
 - Background information and the chronological sequence of the incident were shared
 - Challenges faced during incident management
 - Operation lasted for eight days
 - 222 MT waste collected
 - 173 wildlife saved
 - 1,103 personnels and 26 agencies involved
 - Cost: **RM 134,397.59**
- **Proposal Paper for Littoral States to attend IMO Level 3 Training**
 - Approval to sponsor delegates for the training was sought and given

Technical Meeting- Agenda Discussed

- **Discussion on other matters**
 - Next Technical meeting dates **Proposal**
 - Malaysia: After October 2024 (Exclude December 2024)
 - Indonesia: After August 2024
- **Consideration and Adoption of the report**
 - Report was considered and adopted

Proposed Plan For Next Technical Meeting

- 1Q 2025
- 2-Day Event

Day	Day 1	Day 2
Event	RFC TTX with ITOPF (Five Delegates- Attend Technical meeting)	RFC Technical Meeting

- Total: 5 delegates from each states
- Detailed information/agenda will be provided closer to event date



For Information