



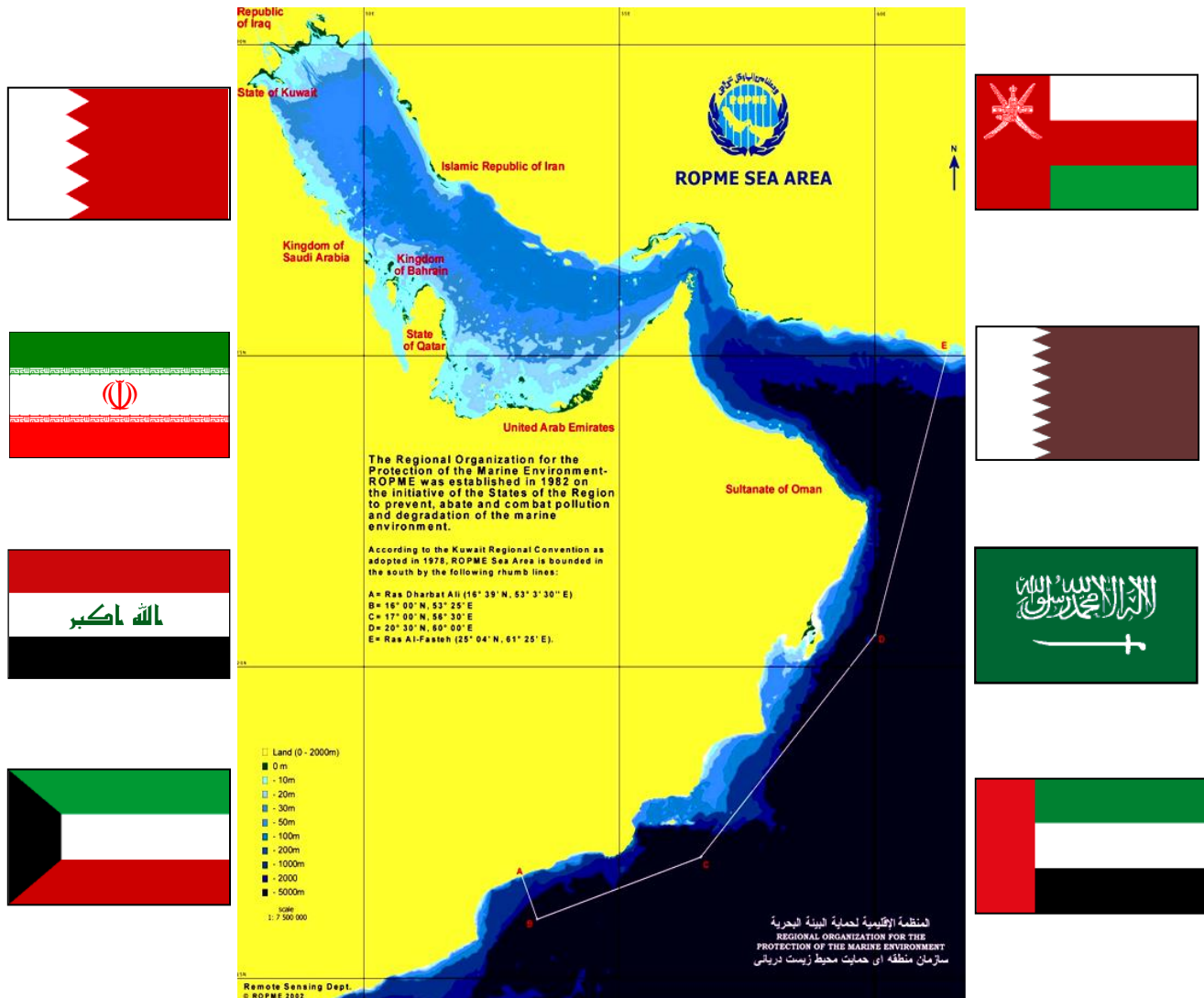
MARINE OIL POLLUTION MANUAL

ROPME SEA AREA

Marine Emergency Mutual Aid Centre (MEMAC)

MARINE OIL POLLUTION MANUAL

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Marine Emergency Mutual Aid Centre



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1. MARINE OIL POLLUTION MANUAL

1.1 Introduction

The Kuwait Regional Convention (23rd April 1978) is a comprehensive umbrella agreement for the protection of the marine environment. And by ratifying the Protocol (24th April 1978) concerning Regional Co-operation in Combating Pollution by Oil and other Harmful Substances in Cases of Emergency, the states of the Region introduced (24th April 1978) more specific obligations to control pollution from a discrete source or to co-operate in various aspects of environmental management.

This comprehensive Manual has been prepared in accordance with the Marine Emergency Mutual Aid Centre functions set by Protocol Article III – 3 (c), and all the information provided herewith follows the Protocol and the ROPME Council Decisions.

The Manual contains information needed for joint pollution combating operations and to be used as a guideline concerning incident management, policy and strategy. The Manual has been tailored to the needs of the Region, avoiding duplications and repetition of standard information which already exists and fulfils the requirements. There are other information and Manuals available that will be in line with this Manual and can be utilized when needed. They are as follows:

- Manual on Oil Pollution – Section IV – Combating Oil Spills - IMO Publication
- Regional Oil Spill Damage Assessment Guidelines - MEMAC Publication
- Oil Pollution Combating Equipment Guide - MEMAC Publication
- Regional Claims Manual - MEMAC Publication, and the IOPC Fund Publication
- Marine Environment Protection Legislation guide- MEMAC Publication (old and to be updated)
- Oil Spill Response Safety Guide - MEMAC Publication
- Use of Oil Spill Chemicals(Dispersants) in ROPME Sea Area - ROPME Publication
- The Loan and Transboundary Movement of Personnel, Equipment and Materials in Cases of Emergency Guidelines - MEMAC Publication

1.2 The Aims of the Manual

The Manual is aimed to enable the Member States to establish prompt and effective response measures to oil or any other harmful substances spilt at sea at the National or Regional level.

The manual is also the practical tool intended to assist and:

- Provide timely information to the decision-makers and various Command levels.
- The On-Scene Commanders in the execution of response operations.
- Providing instant and adequate information reference to the decision-makers in the execution of a joint combating operation involving other Member States.
- Provide an overview of practical response measures which are available to deal with oil spills.

1.3 Manual Preparation Method

- i) The Pollution Manual has been prepared in a number of subjects and indicated by reference numbers and sub-reference numbers.
- ii) Each page footer indicates the Manual name and year on the left-hand side and the page number on the right-hand side.
- iii) Whenever there is any update for the existing information, the pages will be changed accordingly.
- iv) In case of replacing any of the existing pages or adding extra pages to the Manual, the replaced pages or the additional pages should take the existing number or the sequence number of the newly added pages correspondingly. *i.e.* 6/1, 6/2, .. and so on.
- v) Whenever any new information or data is provided, the new sector should be inserted within its relative category of information and will follow the existing sequences of sub-numbering.

1.4 Date of the Manual

The Manual has been prepared by MEMAC and revised by the Member States Oil Spill Response Officers according to the data available up to 2023.

1.5 Updating the Manual

The Manual will update according to the data and information received from the Member States and whenever necessary. Further, the update and the additional information needed for this Manual should be discussed and recommended by the Oil Spill Response Officers and to be approved by the ROPME Council.

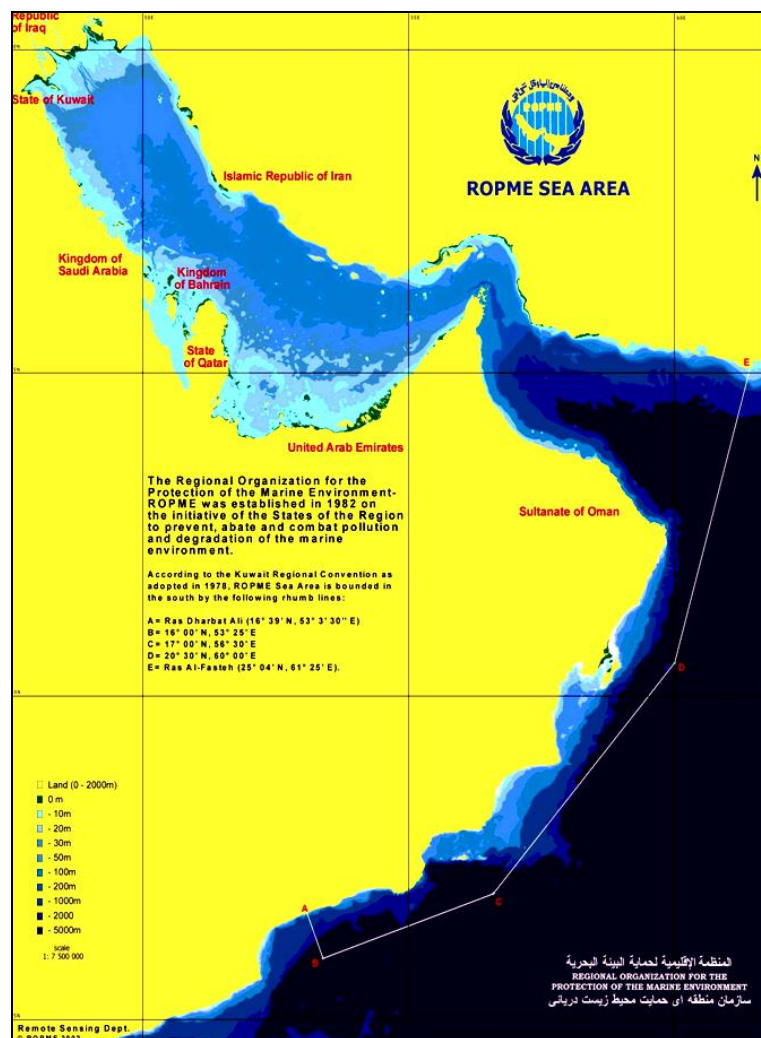
2. The Geographical Coverage

The coverage area is the ROPME Sea Area as identified by the Kuwait Regional Convention for Co-operation on the protection of the Marine Environment from Pollution, Article II (a).

Article II

(a) The present Convention shall apply to the sea area in the Region bounded in the south by the following rhumb lines:

from Ras Dharbat Ali (16° 39' N, 53° 3' 30'' E, to a position 16° 00' N, 53° 25' E; thence through the following positions: 17° 00' N, 56° 30' E and 20° 30' N, 60° 00' E to Ras Al-Fasteh (25° 04' N, 61° 25' E). (Hereinafter referred to as the "Sea Area".)



2.1 Member States Coastal Line Length

<u>States</u>	<u>Km</u>	<u>n. miles</u>	<u>States</u>	<u>Km</u>	<u>n. miles</u>
K. Bahrain	183.5	185	S. Oman	2386	2408
I. R. Iran	2782	2807	Qatar	642	648
R. Iraq	66	67	K. Saudi Arabia	2160	2889
Kuwait	569	574	UAE	1246	1667

Note: The length of the coasts is given approximately, where the coast length of some of the Member States may increase due to reclamation.

3. The Protocol

In accordance with the provision of the Protocol concerning Regional Co-operation in Combating Pollution by Oil and other Harmful Substances in Cases of Emergency Article II and XI,

Where Article II states that:

1. The Member States shall co-operate in taking the necessary and effective measures to protect the coastline and related interests of one or more of the States from the threat and effects of pollution due to the presence of oil or other harmful substances in the marine environment resulting from marine emergencies.
2. The Member States shall endeavour to maintain and promote, either individually or through bilateral or multilateral co-operation, their contingency plans and means for combating pollution in the Sea Area by oil and other harmful substances. These means shall include, in particular, available equipment, ships, aircraft and manpower prepared for operations in cases of emergency.

And Article XI states that:

1. Any Member State requiring assistance in a marine emergency response may call for assistance directly from any other Member State or through the Centre. Where the services of the Centre are utilized, the Centre shall promptly transmit requests received to all other Member States. The Member States to whom a request is made pursuant to this paragraph shall use their best endeavours within their capabilities to render the assistance requested.
2. The assistance referred to in paragraph 1 above may include:
 - (a) Personnel, material, and equipment, including facilities or methods for the disposal of recovered pollutant;

- (b) Surveillance and monitoring capacity;
 - (c) Facilitation of the transfer of personnel, material, and equipment into, out of, and through the territories of the Member States.
3. The services of the Centre may be utilized by the Member States to co-ordinate any marine emergency response in which assistance is called for pursuant to paragraph 1 above.
 4. Any Member State calling for assistance pursuant to paragraph 1 above shall report the activities undertaken with this assistance and its results to the Centre. The Centre shall promptly transmit any such report to all other Member States.
 5. In cases of special emergencies, the Centre may call for the mobilization of resources made available by the Member States to combat pollution by oil and other harmful substances.

4. ROPME Council Decision

Furthermore and according to Article III – (b)/(iii), the ROPME Council at its Ninth Meeting decided to approve the regional Guideline of the Loan and Transboundary Movement of Personnel, Equipment and Materials in Cases of Emergency (See Decision 24 of the Meeting).

5. The Region's Response Strategy and Prioritisation

1. To stop the outflow of the main source causing pollution by oil spills to prevent further oil spillage by all means.
2. To stop, limit and contain the oil from spreading.
3. To recover the oil at sea, avoiding reaching the coastal area.
4. Further action that each Member State should take is the appropriate procedures to protect different coastal installations according to the National Contingency Plan and prioritization plan of each Member State.

6. How MEMAC deals with incidents

Upon receiving notification of an oil spill incident from any source, the following steps are taken immediately:

- Verification of the incident.
- Collecting complete data about the incident.
- Notifying and transmitting all data to all Member States.
- Notifying local, regional and international private sectors working in the field of combating marine pollution to be on standby in case of necessity.
- Continuous exchange of incident data and monitor development.
- Updated information about the incident status is continuously provided to all Member States.
- Legal and technical advice is continuously provided to the Member States
- Oil Spill Trajectory Model is used for early prediction.
- Obtaining the Satellite images
- In case any assistance is needed, MEMAC liaises with the Member States as well as with other regional and international firms.
- A record of the incident is kept for studying and as a lesson to be learnt for future avoidance of any similar incident.

7. RECOMMENDATIONS CONCERNING CO-OPERATION FOR JOINT COMBATING OPERATIONS

According to the Protocol Articles, the ROPME Council decisions and the Member States' policy, the joint combating operation should be executed following with the strategy set up within this manual.

7.1 Main Recommendations

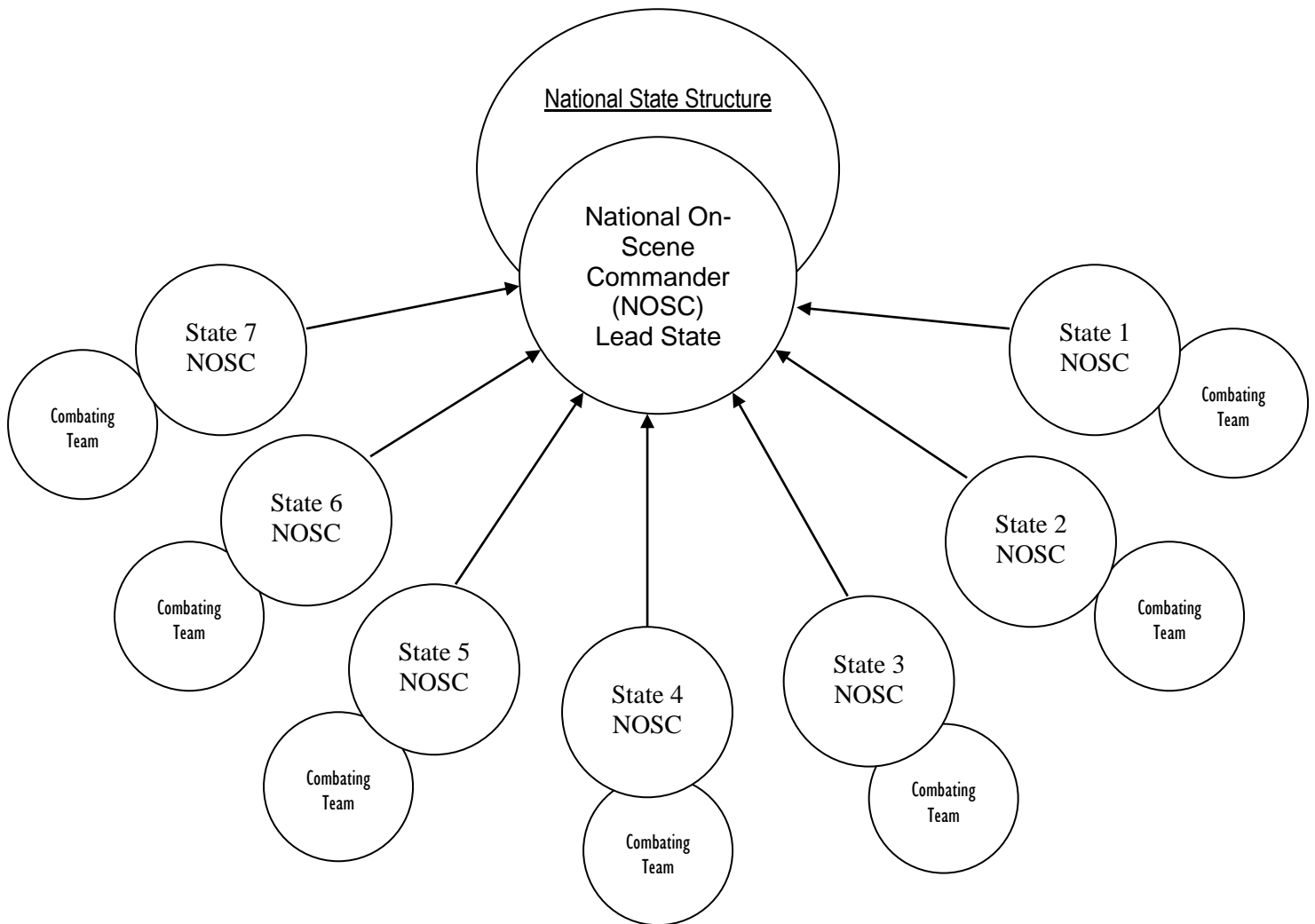
It is RECOMMENDED that:

1. The overall operation should always be under the control and command of the Member State that requested the assistance (Lead State), where each Member State exercises full control over its territory.
2. In case the spilt oil enters the territory of a neighboring State, the command of the combating operation should be transferred to that state whenever it is practical and agreed upon by the parties involved.
3. The Oil Spill Response Officers involved in the operation should liaise, exchange and provide the information needed.
4. The assistance rendered to the Lead State should be under the control of the National On-Scene Commander (NOSC), where the liaison is to be carried out by the Oil Spill Response Officers whenever practically needed.
5. In the case of the Exclusive Economic Zone (EEZ) or the International Water, the clean-up operation should be controlled by the first team that commenced the operation.

7.2 General Principles of the Command Structure

Once the Member States' National Command Structure is the same on its principle, the Regional Command Structure should be the same and in line with executing the joint combating operations.

The following figure indicates the joint operation command structure:



7.3 The Lead State

The Lead Member State, which asks for assistance, should be in charge and lead the joint operations.

To this effect, the Lead State should carry out, *inter alia*, the following actions:

- 3.3.1 Disseminate a continuous and regular situation status to all the National Response Officers of the state rendering assistance, including exchanging information and data.
- 3.3.2 Provide and facilitate the administration, operation and logistic support.
- 3.3.3 Identify clearly each NOSC and his combating team's task of their roles and jurisdiction clearly.
- 3.3.4 Identify the relation between each team and unit to enhance the operation.
- 3.3.5 Establish a proper communication network among all units to execute each operational task to ensure a smooth exchange of information from State to State.
- 3.3.6 In case the assistance is rendered in the form of equipment, the lead state should be responsible for integrating the equipment to the best use within its operation. The Regional reference guideline of The Loan and Transboundary Movement of Personnel, Equipment and Materials in Case of Emergency as well as the Oil Pollution Combating The Equipment Guide should be used for the equipment operation.

7.4 Transfer of Operational Control and Tactical Command

- 3.4.1 In case pollution enters the neighbouring State, the command will normally be transferred to the affected State, where this state should become the Lead State.

- 3.4.2 Shifting the command from the first State to the second state should take place with a complete agreement between both States on the timing of the command shifting. Detail of the incident, the operation and its possible sequences should also be exchanged.

- 3.4.3 The new lead state should decide its strategy for continuing the clean-up operation according to its policy.

- 3.4.4 The new Lead State should decide whether there is a need to continue or discontinue rendering assistance from other Member States.

7.5 Oil Spill Response Officers (OSRO)

- 3.5.1 The Member States may send their Response Officers to participate within the national control centre of the combating operation, where the approval of the Lead Member State is needed.
- 3.5.2 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should act on exchanging opinions and information or rendering assistance. etc., between his own state and the lead state.
- 3.5.3 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should attend the National Coordination Centre of the Lead Member State to follow up on the operation.
- 3.5.4 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should be given the opportunity to advise and exchange knowledge with the lead state, especially when the matter concerns his combating team or his own state territory.
- 3.5.5 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should work closely and in accordance with the lead state policy and without any interference.

- 3.5.6 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should only communicate with the media if requested and approved by the lead State.
- 3.5.7 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should be responsible for their travel arrangement and insurance unless it is agreed upon for different arrangements by the Lead State.
- 3.5.8 The accommodation and local transport for the National On-Scene Commander (NOSC) or the Response Officer, whichever is applicable, should be arranged by the Lead State unless it is agreed upon for different arrangements.
- 3.5.9 The National On-Scene Commander (NOSC), or the Response Officer, whichever is applicable, should be given the necessary communication facilities such as phone, fax, e-mail, .etc. by the lead state.
- 3.5.10 The surveillance activities and information data should be shared among the Member States to avoid costly duplication and interference.
- 3.5.11 In case the response officer cannot attend the Command Centre of the affected state, a frequent and continuous exchange of information among the Member States affected by the pollution should take place.
- 3.5.11 MEMAC Response Officer to act as a liaison for the Member States whenever the involved Member State requests.

7.6 COMMUNICATION

During the clean-up operations, there will be communications between several parties involved, whether it is carried out at the national level or with the cooperation of other Member States to assist, *i.e.*

- Communication between the National Command Centre and the On-Scene Commander.
- Communication between the On-Scene Commander and the combating team.
- Communication between the National Command Centre and aircraft.
- Communication between the On-Scene Commander and other assisting state/s On-Scene Commander.
- Communication between the On-Scene Commander and assisting combating unit.
- Communication between the other assisting state/s On-Scene Commander and their own combating team.
- Communication between the combating units.

Several types of communication means will be needed among different parties involved and have to be clarified in advance. It is essential to pay attention to radio communication through VHF, where a multi-nation unit will be involved. In order to avoid disturbance and overlapping and to have smooth communication, the following recommendations should be followed;

1. The Lead Member State should be responsible for obtaining permission from the national authorities to use the maritime VHF and transport across their boundaries.
2. The Lead Member States should be responsible for nominating the VHF working channel to all vessels involved in combating operations to avoid interference and disturbance to the port and ships' movements and operations.
3. The Lead Member State should be responsible for nominating a second alternative VHF working channel for all vessels involved in combating operations regarding navigation, manoeuvring and other operational matters used among the working vessels.

4. The Lead Member State should hand over the radio communication set/s to the assisting vessels if the frequencies in use are different from the normal VHF marine band.
5. The vessels in operation should have at least two VHF stations on board, where one set to be kept on channel 16 continuously.
6. The communication between the Command Centre and the combating team units should be performed on internal frequencies.
7. The Lead Member State should be responsible for establishing and maintaining the communication between the operational Command Centre and the On-Scene Commander.
8. The number of VHF channels in use should be restricted.
9. The Lead Member State should consider the possibility of using wireless telefax, email, teleprinter, and Satellite Phones. etc.
10. Communication with the aircraft for Aerial Surveillance should be performed and should remain with the Command Centre only.
11. The assisting vessels and unit could communicate with their On-Scene Commander on their private internal frequencies.
12. The working language should be English.

7.7 AERIAL SURVEILLANCE

7.7.1 Introduction

The primary purpose of aerial surveillance is to determine the oil's site, quantity, location and movement that may threaten the marine environment. It is also necessary to note the changes in the appearance and distribution of the oil over time and to observe and report the effectiveness of response measures. Also, it gives a wider angle to observe the pollution size and sources on some occasions, enhances the enforcement of discharge provisions at sea and improves cooperation among the Member States. Obviously the aerial surveillance data will enhance the combating operation strategy.

7.7.2 Aerial Surveillance Co-Ordination

In accordance with the Protocol concerning Regional Cooperation in Combating Pollution by Oil and other Harmful Substances in Cases of Emergency, *Articles II and VII*, cooperation is the spirit of the protocol, where data could be exchanged among the Member States or through the Marine Emergency Mutual Aid Centre (MEMAC). Among these valuable data that could be exchanged are aerial surveillance data, which are vital for advance planning and choosing response options. It is recommended that;

1. The national flight carried out by the Member States over their waters and jurisdiction where information is to be transmitted to the command centre of the respective state.
2. According to the protocol, the Lead Member State could ask for such assistance, where all the flight permissions should be obtained and facilitated by the Lead Member State, which asks for assistance.
3. The nearest neighbouring state/s to the Lead Member State involved in the combating operation should transmit the data of their aerial surveillance observation to the lead Member State.

4. All the offshore flight installations should assist in performing the observation according to the Protocol and the OPRC 1990 by reporting to their own state. This information could also be transmitted to the Lead Member State's Command Centre.
5. All the aerial surveillance observation data received by Marine Emergency Mutual Aid Centre (MEMAC) from other sources should be transmitted immediately to the Member States or the Lead Member State affected directly by the pollution.
6. The images of the Satellite Receiving Station of the Regional Organization for the Protection of the Marine Environment (ROPME) should be obtained and utilized here as a warning system.
7. The images of the Satellite Receiving Station of the Regional Organization for the Protection of the Marine Environment (ROPME) should be considered as a part of aerial surveillance and early warning system.
8. The images of the Satellite Receiving Station of the Regional Organization for the Protection of the Marine Environment (ROPME) should be considered as a part of the documentation and evidence.

7.8 Trajectory Model

The Marine Emergency Mutual Aid Centre (MEMAC), in cooperation with National Oceanic and Atmospheric Administration (NOAA), has formed a trajectory model for the ROPME Region for many years to enhance the decision-making process. This model has proved to be an excellent tool for predicting oil spill movement and advancing combating planning. But as this model is generally for a small scale, a later model called OSIS is dedicated to the Region to cover a larger scale and with more planning facilities. As all the Member States are using both models, it is recommended that:

1. The Member States to run the model promptly.
2. The Member States affected by oil pollution should check the result of the model with MEMAC headquarters frequently.
3. In a joint operation, the Lead State's Command Centre should run the model and apply its resulting data for its combat operations. The resulting data from MEMAC and other Member States should be used just for the additional verification process.
4. The models should be utilized for frequent staff training during normal working days.
5. The model should be utilized as a part of the spill incident investigations and documentation.

7.9 THE POLLUTION REPORTING SYSTEM

Article VII of the Protocol concerning Regional Co-operation in Combating Pollution by Oil and other Harmful Substances in Cases of Emergency states the following:

1. *Each Member State shall direct its appropriate officials to require masters of ships, pilots of aircraft and persons in charge of offshore platforms and other similar structures operating in the marine environment and under its jurisdiction to report the existence of any marine emergency in the Sea Area to the appropriate national authority and to the Centre.*
2. *Any Member State receiving a report pursuant to paragraph 1 above shall promptly inform the following of the marine emergency:*
 - (a) *The Centre;*
 - (b) *All other Member States;*
 - (c) *The flag State of any foreign ship involved in the marine emergency concerned.*
3. *The content of the reports, including supplementary reports where appropriate, referred to in paragraph 1 above should conform to appendix A to this Protocol.*
4. *Any Member State which submits a report pursuant to paragraphs 2 (a) and (b) above, shall be exempted from the obligations specified in paragraph (b) of article IX of the Convention.*

APPENDIX A

Guidelines for the report to be made pursuant to Article VII of the Protocol

1. *Each report shall, as far as possible, contain, in general, the following information:*
 - (a) *The identification of the source of pollution (e.g. identity of the ship), where appropriate;*
 - (b) *The geographical position, time and date of the occurrence of the incident or the observation;*
 - (c) *The marine meteorological conditions prevailing in the area;*
 - (d) *Where the pollution originates from a ship, relevant details respecting the ship's condition.*

2. *Each report shall contain, whenever possible, in particular:*
 - (a) *A clear indication or description of the harmful substances involved, including the correct technical names of such substances (trade names should not be used in place of the correct technical names);*
 - (b) *A statement or estimate of the quantities, concentrations and likely condition of harmful substances discharged or likely to be discharged into the sea;*
 - (c) *Where relevant, a description of the packaging and identifying marks; and*
 - (d) *The name of the consignor, consignee or producer.*

3. *Each report shall clearly indicate, whenever possible, whether the harmful substance discharged or likely to be discharged is oil or a noxious liquid, solid or gaseous substance, and whether the such substance was or is carried in bulk or contained packaged form, freight containers, portable tanks, or submarine pipelines.*

4. *Each report shall be supplemented, as necessary, by any relevant information requested by a recipient of the report or deemed appropriate by the person sending the report.*

5. *Any of the persons referred to in article VII, paragraph 1 of this Protocol shall:*
 - (a) *Supplement as far as possible the initial report, as necessary, with information concerning further developments; and*
 - (b) *Comply as fully as possible with requests from affected States for additional information.*

Accordingly, the following recommendations should be followed;

1. *Following Article VII and its Appendix, a form has been formatted, which is given below.*
2. *Each notification disseminated should take the incident name and number to indicate the sequence of the report, especially if the given form is not used and a normal individual letterhead is used, as in most cases.*
3. *All Member States understand that 50- Barrel oil pollution has to be notified at least to the Marine Emergency Mutual Aid Centre (MEMAC).*

Also, to bear in mind, the Protocol Article IX states the following:

Any Member State which transmits information according to this Protocol may specifically restrict its dissemination. In such a case, any Member State or the Centre to whom this information has been transmitted shall not divulge it to any other person, Government, or any public or private organization without the specific authorization of the former Member State.

- It is highly recommended and as a normal practice to alert the concerned parties, the National Focal Points and Response Officers, as the first points of contact for combating oil pollution, by phone, followed by facsimiles.
- All standard guidelines and forms under the Protocol are given as Annexes 1, 2 and 3.

7.10 Regional Emergency Drill Exercise

7.10.1 Aim of the Drill Exercise

In accordance with the ROPME Council Decision, the Marine Emergency Mutual Aid Centre (MEMAC) is mandated to convene a Regional Emergency drill exercise every two years in one of the Member States, which will act as the Lead State. The aims of the drill can be summarized as follows:

1. Test and evaluate the National Contingency Plan of the States in general;
2. Test and evaluate the Regional Contingency Plan in general;
3. Test and evaluate the national and Regional capacity and procedures, including communication, reporting, and transboundary movement of personnel and equipment;
4. Test and evaluate the level of response, capabilities and readiness;
5. Test and evaluate the combating equipment types and adequacy;
6. Test and evaluate personnel skills in handling the emergency clean-up operations;
7. Test and evaluate the estimated time of arrival of the National personnel and mobilization and deployment of equipment at the scene of the incident;
8. Test and evaluate the estimated time of arrival of the Regional rendering assistance personnel and equipment at the scene of the incident; and
9. Personnel familiarising and strengthening cooperation in pollution combating operations.

7.10.2 Preparation of the Drill Exercise

Following the ROPME Council Decision, it is clearly indicated that the Marine Emergency Mutual Aid Centre (MEMAC) to carry out all the preparation, planning, setup and arrangement closely with the nominated Member State, which will host the Drill Exercise.

7.10.3 The Drill Exercise Report

1. At the end of each drill exercise, MEMAC should prepare a technical report of the event, which shall be circulated to all the National Focal Points.
2. Obviously, the report will contain a part of some private technical information related to the host Member State, where the host state's permission shall only release this part of the report.
3. The report should contain and align with the aforementioned aim.
4. The report should contain the lessons learned, suggestions and recommendations for future improvement.
5. The report should be presented and discussed by the OSRO meeting, and the main important recommendations shall be presented to the ROPME Council.

7.11 EQUIPMENT

All the Member States Stockpiles are given as Annex 5 to this Manual.

7.12 DISPERSANTS

Oil Spill Dispersants are chemicals sprayed onto spilt oil and cause the spilt oil to be rapidly removed from the sea surface and dispersed into the water column, where it is rapidly diluted to Non- a harmful concentration. Dispersants can be used to reduce the threat posed by surface oil to sensitive resources.

The use of dispersants should be in accordance with the Code of Practice for the Use of Oil Spill Dispersants in the ROPME Sea Area. Full detailed information concerning the dispersants is given within the ROPME Publication “USE OF OIL SPILL CHEMICALS IN THE ROPME SEA AREA”.

Nevertheless, some essential elements have to be stated within this Manual as a reminder, such as;

- The application of dispersants must take place before the oil weathers.
- The oil spill dispersants are best used to prevent shoreline pollution, not as a response to shoreline pollution.
- If dispersants are to be used on amenity shorelines, consultation and permission should be obtained from the concerned Member State's environmental affairs.
- Dispersants should not be applied to oil sheen.
- Dispersants should be applied to thick parts of the slick (dull grey to dark brown appearance).
- Zones pre-approved for dispersant applications are those zones which contain resources which are not highly sensitive to the dispersed oil and where the water depth is greater than 10 meters allowing rapid dilution.
- Zones sensitive to highly dispersed oil concentrations, such as for water depth of less than 10 meters, where it is known that there are resources which are sensitive to dispersed oil and where dispersant use is only recommended if the response is likely to result in an overall net environmental benefit.
- The use of dispersants close to water intakes could introduce oil to the system and thus should be avoided.
- The dispersant type should be one of those approved type by ROPME according to the Regional approved procedure method.

List of the Approved Oil Dispersants in the ROPME Sea Area

- **CHIMEC CHIMSPERSE 6000***
- **Corexit® EC9500A****
- **Corexit EC9500B****
- **Dasic Slickgone NS**
- **Disperep 12****
- **Eflochem OSD ECO HD**
- **Finasol OSR 51**
- **Finasol OSR 52**
- **Radiagreen OSD****
- **Super - Dispersant 25**

* For sea and beach but not for rocky shore

** For sea, but not for beach and rocky shore

The existing stock of OD 4000 (PE 998), Seacare Ecosperse LT23 and NU CRU may still be used during the shelf life until exhaustion.

8. Response to Marine Pollution by Chemicals and other Hazardous Substances

The importance of precautionary measures and prevention in avoiding pollution by Hazardous and Noxious substances in the first instance and the need for strict application of existing international instruments dealing with maritime safety and marine pollution prevention and also the speedy development of enhanced standards for design, operation and maintenance of ships carrying Hazardous and Noxious substances and offshore units, had led to the development of the Protocol on Hazardous and Noxious substances pollution, preparedness, response and co-operation.

Other than oil pollution types, such as pollution by chemicals and other hazardous substances, the response strategy will remain the same as the response to oil pollution. But the response will be according to the type of chemicals or the hazardous substances. The response personnel, experts, and equipment will be different to those in oil pollution.

MEMAC has already established a list of equipment to be utilised for respond to pollution by the chemicals as well as a training package has been provided along with the Chemical Modelling. Chemical Modelling is to be consulted and utilized during any chemical pollution for safe and successful combating operations.

9. The Member States' Responsible Authorities

Each Member State will have different authorities than the environmental affairs, the National Focal Point, to carry out specific duties during the process of oil pollution incident complete operation process as from the time of the notification, combating, assessment, etc. till the case is settled. The responsible authorities are given as per each Member State according to the State's administrative structures.

9.1 Kingdom of Bahrain: Responsible Authorities

- | | |
|---|---|
| 1. Observation/ Reporting of Offence | The Supreme Council
for the Environment (SCE),
Ministry of Interior (Coast Guard, Flying
Wing) |
| 2. Combating operation | Supreme Council
for the Environment (SCE), Ministry of
Municipalities and Ministry of Interior
(Coast Guard) |
| 3. Collection of Evidence | SCE and Ministry of Interior (Coast Guard,
Flying Wing) |
| 4. Port State Control | General Organization of Sea Ports |
| 5. Assessment of Evidence | Supreme Council
for the Environment (SCE) |
| 6. Prosecution of Offenders | Supreme Council
for the Environment (SCE) |
| 7. Type of Court | Criminal Court (Ministry of Justice) |
| 8. Enforcement of Penalty | Criminal Court (Ministry of Justice) |
| 9. Collection of Statistics | Supreme Council
for the Environment (SCE) |
| 10. Feedback and Follow-up | Supreme Council
for the Environment (SCE) |

9.2 Islamic Republic of Iran: Responsible Authorities

1. Observation/ Reporting of Offence	Ports & Maritime Organization (PMO)
2. Combating operation	Ports & Maritime Organization (PMO)
3. Collection of Evidence	Ports & Maritime Organization (PMO)
4. Port State Control	Ports & Maritime Organization (PMO)
5. Assessment of Evidence	Ports & Maritime Organization (PMO) + Department of Environment (DOE) and Fisheries Organization
6. Prosecution of Offenders	Ports & Maritime Organization (PMO), Coast Guard, Navy and Judiciary
7. Type of Court	Maritime
8. Enforcement of Penalty	PMO Legal Authorities
9. Collection of Statistics	Ports & Maritime Organization (PMO)
10. Feedback and Follow-up	Ports & Maritime Organization (PMO)

9.3 Republic of Iraq: Responsible Authorities

1. Observation/ Reporting of Offence	Ministry of Environment
2. Combating operation	Ministry of Transportation / General Company for Ports of Iraq (GCPI), Ministry of Oil / Basra Oil Company, Oil Pipeline Company, North Oil Company
3. Collection of Evidence	Ministry of Environment
4. Port State Control	GCPI
5. Assessment of Evidence	Ministry of Environment
6. Prosecution of Offenders	Ministry of Environment / Environment Judge
7. Type of Court	Criminal Court
8. Enforcement of Penalty	GCPI, Ministry of Environment
9. Collection of Statistics	Ministry of Environment
10. Feedback and Follow-up	Ministry of Environment

9.4 State of Kuwait: Responsible Authorities

1. Observation/ Reporting of Offence	EPA, The oil companies group and Coast Guards
2. Combating operation	
3. Collection of Evidence	Coast Guards and Ministry of Communications
4. Port State Control	Coast Guards and Ministry of Communications
5. Assessment of Evidence	Coast Guards and Ministry of Communications
6. Prosecution of Offenders	Criminal Penalty Laws
7. Type of Court	Criminal
8. Enforcement of Penalty	Ministry of Justice, Legal and Ad.
9. Collection of Statistics	N/A
10. Feedback and Follow-up	Coast Guards and Ministry of Communications

9.5 Sultanate of Oman: Responsible Authorities

- | | |
|---|---|
| 1. Observation/ Reporting of Offence | Oman Maritime Security Center |
| 2. Combating operation | Environment Authority |
| 3. Collection of Evidence | Environment Authority |
| 4. Port State Control | Ministry of Transport and Communication |
| 5. Assessment of Evidence | Environment Authority |
| 6. Prosecution of Offenders | Environment Authority |
| 7. Type of Court | Omani Courts |
| 8. Enforcement of Penalty | Environment Authority |
| 9. Collection of Statistics | Environment Authority |
| 10. Feedback and Follow-up | Environment Authority |

9.6 State of Qatar: Responsible Authorities

- | | |
|---|--|
| 1. Observation/ Reporting of Offence | Ministry of Environment and Climate Change |
| 2. Combating operation | Navy, Qatar Energy (QE) (Department Oil Leakages) |
| 3. Collection of Evidence | Ministry of Transportation, Ministry of Environment and Climate Change |
| 4. Port State Control | Ministry of Transportation (Naval Authority) |
| 5. Assessment of Evidence | Ministry of Transportation (Naval Authority) |
| 6. Prosecution of Offenders | Courts, Public Prosecution |
| 7. Type of Court | Depends upon the type of violation and environmental laws |
| 8. Enforcement of Penalty | Courts, Public Prosecution / Environmental Laws |
| 9. Collection of Statistics | Ministry of Transportation (Naval Authority) |
| 10. Feedback and Follow-up | Ministry of Environment and Climate Change |

9.7 Kingdom of Saudi Arabia: Responsible Authorities

1. Observation/ Reporting of Offence	MEWA, NCEC
2. Combating operation	As stated in the Environmental Law under chapter 7: Environmental disasters and emergencies, <u>Article 34</u> : “The Minister may take the necessary procedures and measures to respond to any environmental emergency or disaster, or any imminent threat to the environment, and to mitigate the effects of any of the above, in coordination with the relevant agencies”. The National Committee for responding to oil spills and other harmful substances are involved in the supervision and the communication in case of any oil spills. The National Center of Environmental Compliance (NCEC) is considered as the acting regulator for responding to oil spills and all environmental emergencies.
3. Collection of Evidence	NCEC, C. Guard, Port authorities
4. Port State Control	Ports Authorities
5. Assessment of Evidence	NCEC, C. Guard, Port authorities
6. Prosecution of Offenders	Courts
7. Type of Court	Courts
8. Enforcement of Penalty	NCEC
9. Collection of Statistics	NCEC
10. Feedback and Follow-up	NCEC

9.8 United Arab Emirates: Responsible Authorities

- 1. Observation/ Reporting of Offence** Ministry of Climate Change and Environment
- 2. Combating operation**
- 3. Collection of Evidence**
- 4. Port State Control**
- 5. Assessment of Evidence**
- 6. Prosecution of Offenders**
- 7. Type of Court**
- 8. Enforcement of Penalty**
- 9. Collection of Statistics**
- 10. Feedback and Follow-up**

10. Evidence from Various Sources that can be Provided and Exchanged among the Member States

Following the convention and the Protocol in cooperation in the protection of the Marine Environment, any type of the following evidence can be exchanged among the Member States:

- **Witness Statement** : Any report received (process-verbal) from different sources concerning a discharge or pollution, to be checked and endorsed by the monitoring agency or any state officials after verification.

- **Official Statement** : An official report (process-verbal) documented and signed by an official officer or the statement in writing taken by an official officer from the witness statement.

- **Photographs** : Any photographs taken with a photographic camera or taken by digital cameras with annotation (date, time, and position of the observation).

- **Side Looking Airborne Radar (SLAR)** :
An instrument capable of detecting possible surface pollution based on the difference between the waves suppressed by a slick and the usual waves of the surrounding waters.

- **Infra Red (IR) Sensor**: A sensor provides a picture of the relative temperature differences, indicating thicker and thinner parts of the oil slick (short-range).

- **Forward Looking Infra Red (FLIR) Camera**:
Similar to IR-sensor but with a different angle of view.

- **Positioning System** : Any system used to obtain an accurate position of the observing platform. It includes GPS or any other navigation systems.

- Oil Sample Analyses by GC/MS:

Gas Chromatography / Mass Spectrometry is a technique that can give a detailed spectrum of the analyzed oil, i.e. its “fingerprint”.

- Darkness Identification:

Identification of a ship’s name in darkness by electronic means or by searchlight.

- Satellite :

satellites can provide information on possible discharges.

The image should be considered as a limited tool complementing a typical observation.

- Use of Colour Code:

The colour of the oil spill depends on the layer thickness and or the type of oil. With the colour code, it is sometimes possible to estimate the amount of spilt oil.

- Radio Recording :

Conversation with the suspected violator recorded on tape recorder or video recorder.

- Port Inspection Reports:

A report from the Port State Inspector with copies of all relevant documents. On request, the Port State Officer can take oil samples to be analyzed at a later stage.

- Computer Modeling:

The Trajectory Model (digital calculation model) can be used to backtrack from the position of a detected oil spill, with the objective of finding the original position of the discharge. The same model can also predict the drift of the slick.

11. The National Focal Points

The Member States' National Focal Points or their nomination are the responsible authorities for receiving reports of oil pollution, requesting mutual assistance, dealing with media and all related matters.

TABLE 1: INITIAL CONTACT POINTS

THE NATIONAL FOCAL POINTS

STATE	INITIAL CONTACT POINTS	ADDRESS
K. BAHRAIN	The Supreme Council for the Environment	P.O. Box 18233, Bahrain Mall
I. R. IRAN	Department of the Environment Environment and Wetlands	P.O. Box 15875-5181 Pardisan Natural Park Shahid Hakim Highway, Tehran
R.IRAQ	Ministry of Environment	P.O.Box:10062,Baghdad Republic of Iraq
KUWAIT	Environment Public Authority	P.O. Box 24395, 13104 Safat
Sultanate of OMAN	Environment Authority	P.O. Box 323, Postal Code 100, Muscat
QATAR	Ministry of Environment and Climate change	P.O. Box 7634, Doha
K. SAUDI ARABIA	National Centre for environmental compliance (NCEC)	P.O. Box 1358, Jeddah Postal Code 13241-3000
U.A.E.	Ministry of Climate Change and Environment	P.O. Box: 1509, Dubai

11.1 The Member States' National Focal Points

11.1.2 Kingdom of Bahrain

TEL CODE: 00973



Supreme Council of Environment

H.H.Shaikh Abdullah Bin Hamad Al-Khalifa

President of Supreme Council for Environment

H.E Dr. Mohammed Mubarak Bin Daina

Minster of Oil and Environment
Supreme Council for Environment
P.O. Box 18233, Bahrain Mall

Kingdom of Bahrain

Tel: 17 386000 / 386661

66636333(M)

Fax: 17 386006 / 17386551

E-Mail: mbindaina@sce.gov.bh

RESPONSE OFFICERS

Eng. Hassan Abdulla Marzooq

Senior Environmental Specialist
Supreme Council for Environment

Kingdom of Bahrain

Tel: 17 386599 (O)

36667006 (M)

Fax: 17 920213

E-Mail: hmarzooq@sce.gov.bh

Capt. Ali Abdulla Al Zayani

Coastguards Headquarter
Ministry of Interior

Kingdom of Bahrain

Tel: 17 342827 (O)

36622332 (M)

Fax: 17 342827

E-Mail: ae.alzayani@interior.gov.bh

Eng. Luma Al- Mahroos

Act. Director
Environmental Assessment and Control Directorate
Supreme Council for Environment

Kingdom of Bahrain

Tel: 17 386564 (O)

39696393 (M)

Fax: 17 920213

E-Mail: lalmahroos@sce.gov.bh

Environmental Hot Line :

80001112

11.1.2 Islamic Republic of Iran

TEL CODE: 0098



Department of the Environment

H.E. Dr. Ali Salajegheh

Vice President and Director
Department of Environment
P.O. Box 15875-5181, Tehran

Islamic Republic of Iran

Tel: 21 88233171 – 88233060 -1

Fax : 21 88233056

E-Mail : riasat-doe@yahoo.com

Dr. Mojtaba Zoljoodi

Deputy for Marine Environment and Wetlands
Department of Environment
Pardisan Nature Park
Hakim Highway, Tehran

Islamic Republic of Iran

Tel: 21 88233148 / 88233202

(M)

Fax: 21 88233149

E-Mail: : m.zoljoodi@yahoo.com

RESPONSE OFFICERS

Mr. Mohammad Mirnejad

Head of Marine Environment Protection Office
Ports and Maritime Organization
Shahidi St, Haghani Exp'way, Vanak Sq, Tehran

Islamic Republic of Iran

Tel: 21 84932175 - 84932192

9126930049 (M)

Fax: 21 84932190

E-Mail: mmirnejad1393@gmail.com

Ms. Roya Emam

Sr. Expert of Marine Environment Protection
Ports and Maritime Organization
Shahidi St, Haghani Exp'way, Vanak Sq, Tehran

Islamic Republic of Iran

Tel: 21 84932179

9122104172 (M)

Fax: 21 84932190

E-Mail: royamarine@gmail.com

Mr. Reza Hossein Ghobakhloo

Sr. Expert of Maritime Safety and Environmental
Protection

Ports and Maritime Organization

Shahidi St, Haghani Exp'way, Vanak Sq, Tehran

Islamic Republic of Iran

Tel: 21 84932076

9123260400 (M)

Fax: 21 84932190

E-Mail: ghobakhloo.r@gmail.com

Ms. Behdokht Mirzaei Asl

Department of Environment

Pardisan Nature Park

Hakim Highway, Tehran

Islamic Republic of Iran

Tel: 21 42781562

912945869 (M)

Fax:

E-Mail: behmiraee15@gmail.com

11.1.3 Republic of Iraq



TEL CODE: 00964

Ministry of Environment

H.E Dr. Jassim Al-Falahy
Minister of Environment
P.O.Box: 10062, Baghdad
Republic of Iraq

Tel: 7901118860
Fax : 7192071
Email : moen_iraq@yahoo.com
Dr.Jassimalfalahy@yahoo.com

RESPONSE OFFICER

Dr. Waleed Hameed Ahmed Al-Musawi
General Director of Environment Protection
And Enhancement in the Southern Region
and Improvement Office
Ministry of Environment
Republic of Iraq

Tel: 7801253232
Email: Waleedoor@yahoo.com
Email: south.enipd@yahoo.co.uk

Khalid Hamza Abbas
Director General
Basra Oil Company
Ministry of Oil
Republic of Iraq

Tel: 7801192393
Email: dgoffice@soc.gov.com
soc-dgo@yahoo.com

Dehyaa Hanoon Mouzal
Director General
Ministry of Transportation
Chairman of the Iraqi Supreme Maritime Authority
Republic of Iraq

Tel: 7801058930
Email: dhyaahanon@yahoo.com

Abdul Adeem Jassim Bedaiwy
Captain
Manager of Marine Inspection
Ministry of Transportation
General Company for Ports of Iraq
Republic of Iraq

Tel: 7718089922
Email: info@scp.gov.iq

11.1.4 State of Kuwait



TEL CODE: 00965

Environment Publics Authority

Minister of Oil / Chairman of the Higher Council of the Environment
State of Kuwait

Dr. Sameera AlKandari

Acting Chairman of the Board & Director General
Environment Public Authority
P.O.Box: 24395
Safat 13104
State of Kuwait

Tel: 22208511
Fax:22208369
Email: dg.kepa@gmail.com
CC Email: ir@epa.org.kw

RESPONSE OFFICERS

Dr. Abdullah Al-Zaidan

Deputy of Technical Affairs
Environment Public Authority
P.O. Box 24395, 13104 Safat
State of Kuwait

Tel : 98858821 (M)
E-Mail: a.alzaidan@epa.org.kw

Ms. Farah Ebraheem

Director of Water Quality Monitoring Dept.
Environment Public Authority
P.O. Box 24395, 13104 Safat
State of Kuwait

Tel:99444990(M)
E-Mail: farah@epa.org.kw

Dr. Lujain J. Alsayegh

Marine Water Monitoring Section
Environment Public Authority
P.O. Box 24395, 13104 Safat
State of Kuwait

Tel: 99041272 (M)
E-Mail : l.alsayegh.epa.org.kw
l.alsayegh@gmail.com

Mr. Eisa Abdulkareem

Marine Water Monitoring Section
Environment Public Authority
P.O. Box 24395, 13104 Safat
State of Kuwait

Tel: 51512454(M)
E-Mail: abdulkae@epa.org.kw

Eng Dalal Eid Al-Sabri
Marine Water Monitoring Section
Environment Public Authority
P.O. Box 24395, 13104 Safat
State of Kuwait

Tel: 66953990 (M)
E-Mail : d.alsabri@epa.org.kw

11.1.5 Sultanate of Oman

TEL CODE: 00968



Environment Authority

H.E. Dr. Abdulla bin Ali Al-Amri
Chairman of Environment Authority
P.O. Box: 323 Muscat, Post Code 100 Muscat
Sultanate of Oman

Tel : 24404500
Fax: 24404581
Email : icd@ea.gov.om

Mr. Younis Said Al-Hajri
Director of International Co-operation
Department
Environment Authority
P.O. Box 323, Postal Code 100, Muscat
Sultanate of Oman

Tel: 24404817
95310020 (M)
Fax: 24691232
E-mail: icd@ea.gov.om

RESPONSE OFFICERS

Mr. Mamdouh Salim Al-Marhoon
Director of the Environmental Emergency
Centre
Environment Authority
P.O. Box 323, Postal Code 100
Sultanate of Oman

Tel: 24404786
95656839 (M)
Fax: 24691232
E-Mail: Mamdouh.almarhoon@ea.gov.om

Mr. Abdulhakim bin Ahmed Al-Harathi
Pollution Operations Monitoring Center
Environment Authority
P.O. Box 323, Postal Code 100
Sultanate of Oman

Tel : 24404786/ 24693666 (O)
99632164 (M)
E-Mail: hakak@yahoo.com
abdulhakim.alharathi@ea.gov.om

Eng. Mouza Moosa Obaid Al Salami
Pollution Operations Monitoring Center
Environment Authority
P.O. Box 323, Postal Code 100 Muscat
Sultanate of Oman

Tel : 24404846 / 24693666 (O)
E-Mail: muzan23@hotmail.com
mouza.alsalami@ea.gov.om

Mr. Abdullah Said Al Busafi
Pollution Operations Monitoring Center
Environment Authority
P.O. Box 323, Muscat, Postal Code 100
Sultanate of Oman

Tel : 24404841/ 24693666(O)
99219429 (M)
Fax: (968) 24691082
E-Mail: abdullah.albusafi@ea.gov.om

11.1.6 State of Qatar

TEL CODE: 00974



Ministry of Environment and Climate Change

H.E Sheikh Dr. Faleh Bin Nasser Bin Ahmed Al Thani

The Minister of Environment and Climate Change

Tel : 44263422

Fax : 44263427

E-mail : FNAIthani@mm.gov.qa

Mrs. Sarah Mohammed Al-Maliki

Director of International Co-operation
Department
Ministry of Environment and Climate change
(MOECC)

State of Qatar

Tel: 44266844 (O)

E-Mail: smalmalki@mm.gov.qa

RESPONSE OFFICERS

Eng. Ahmed A. Belal Al Tamimi

Director of Environmental Operations
Management
Ministry of Environment and Climate change
(MOECC)

State of Qatar

Tel: 44263139

55080818 (M)

Fax: 44263461

E-Mail: aabelal@mm.gov.qa

Mr. Ahmad Malallah Al-Malki

Asst. Director of Environmental Operations
Management
Ministry of Environment and Climate change
(MOECC)

State of Qatar

Tel: 44261250

55185851(M)

Fax:

E-Mail: ammaki@mm.gov.qa

Eng. Abdulla Eid Al Muhandi

Enviro Emergency Expert
Ministry of Environment and Climate change
(MOECC)

State of Qatar

Tel: 44264605

55070003 (M)

Fax:

E-Mail: aalmuhandi@mm.gov.qa

Eng. Ms. Dareen Saleh Al Musaifri

3rd Chemical Engineer
Ministry of Environment and Climate change
(MOECC)

State of Qatar

Tel: 44263554

66512423 (M)

Fax:

E-Mail: dsalmusaifri@mm.gov.qa

11.1.7 Kingdom of Saudi Arabia

TEL CODE: 00966



National Centre for Environmental Compliance

HE Eng. Ali Bin Saeed Alghamdi

Chief Executive Officer (CEO)
National Centre for Environmental Compliance
Building. No 7036 Postal Code 13241-3000

Kingdom of Saudi Arabia

Tel: 0112038824
Fax: 0114719640
Tlx: 601800 ARSAD SJ

Email: Ghamdiasg@ncec.gov.sa

Eng. Ahmed Bin Abdulhadi Al-Khaldi

General Director for National Centre for Environmental Compliance – Eastern Province
National Centre for Environmental Compliance
Building. No 8825 Postal Code 34221-3261

Kingdom of Saudi Arabia

Tel: 0181184875 (O)
+966 555844703 (M)

Fax: +966 138588591

Email: A.Al-Khaldi@ncec.gov.sa

Mr. Faris M. Al-Qthami

Environmental Emergency Specialist
National Centre for Environmental Compliance

Kingdom of Saudi Arabia

Tel: 124238204 (O)
+966 566008405 (M)

Fax:

Email : F.al-otaibi@ncec.gov.sa

RESPONSE OFFICERS

Mr. Nasser M. Al-Qurishah

Director of Environmental Response Department
National Centre for Environmental Compliance

Kingdom of Saudi Arabia

Tel: 0181184881 (O)
+966 502799611 (M)

Fax: +966 138576752

Email: N.al-quraishah@ncec.gov.sa

11.1.8 United Arab Emirates

TEL CODE: 00971

Minister of Climate Change and Environment

**H.E. Mariam bint Mohammed Saeed Hareb
Almheiri**

Minister of Climate Change and Environment
P.O. Box: 1509, Dubai

United Arab Emirates

Tel:+971 4 2148444 / 4 2148554

Toll Free : 8003050

Fax:+971 4 2655822

Email:

minister_office@moccae.gov.ae

Mr. Ahmed Mohammed Alzabi

Director, Fisheries Sustainability Dept.
Ministry of Climate Change & Environment
Dubai

United Arab Emirates

Tel:+971 42148444

+971 42148534 (Dir)

+971 (M)

Fax :+971 42655822

E-Mail : amalzabi@moccae.gov.ae

RESPONSE OFFICERS

Ms. Hamdah Abdulla Mohammad Al Aslai

Head of Marine Life Section, Fisheries Sustainability
Development
Ministry of Climate Change & Environment
Dubai

United Arab Emirates

Tel:+971 42148347

+971 508485358(M)

Fax :+971 42655822

E-Mail : haalaslai@moccae.gov.ae

Capt. Abdulla Alhayyas

Director of Maritime Transport Affairs Department
Ministry of Energy & Infrastructure

United Arab Emirates

Ship Incident Notification

Director of Maritime Transport Affairs

Tel:+971 4 527 4630

E-mail : abdulla.alhayyas@moei.gov.ae

Annex – 1

Guidelines for Preparation of an Oil Spill Incident Final Report

Guidelines for Preparation of an Oil Spill Incident Final Report

GUIDELINES FOR THE PREPARATION OF AN OIL SPILL INCIDENT FINAL REPORT

COUNTRY :
DATE :
INCIDENT :

PART I DESCRIPTION OF THE INCIDENT

1. THE INCIDENT
Describe the incident in details giving clear information on the pipeline, the vessel(s) involved and any other cause
2. DATE and TIME OF THE INCIDENT
3. LOCATION OF THE INCIDENT
4. TYPE OF OIL SPILLED
Specifying its API, Viscosity, etc.
5. QUANTITY OF OIL SPILLED
6. RESOURCES AND OTHER NEIGHBOURING STATES AT RISK
7. ANY OTHER CASUALTIES
8. REQUEST FOR ASSISTANCE

PART II PROCEDURES FOLLOWED-UP DURING THE INCIDENT

1. EQUIPMENT AND RESOURCES MOBILISATION
2. CONTAINMENT AND RECOVERY
Quantities and types of booms, skimmers, barges, etc
3. DEFLECTION
4. CLEAN-UP
5. DISPERSING

PART III EFFICIENCY OF PROCEDURES

1. QUANTITY OF OIL SPILLED
2. QUANTITY OF OIL RECOVERED/RETRIEVED
3. QUANTITY OF OIL DISPERSED
4. DISPOSAL OF RECOVERED, RETRIEVED OIL AND/OR OILY WASTE
5. ASSISTANCE RECEIVED

PART IV ENVIRONMENTAL IMPACT OF SPILLED OIL AND COMBATING/CLEAN-UP OPERATIONS

1. **RESOURCES IMPACTED**
Such as fisheries and the fishing fleet, birds, turtles, tourism, jetties, etc.
2. **ECOSYSTEMS IMPACTED**
Corals, mangroves, sea grass beds, etc
3. **BEACHES OILED**
Total area, extent of oiling, shore installments, etc.

PART V POST INCIDENT PROCEDURES

1. **TERMINATION OF COMBATING/CLEAN-UP OPERATIN**
2. **FACTS AND EVIDENCES COLLECTED**
3. **FINAL DISPOSAL OF COMBATING/CLEAN-UP WASTES**
4. **CLEANING AND SOTRING OF THE UTILISED EQUIPMENTS**
5. **COST OF COMBATING/CLEAN-UP OPERATIONS**

PART VI DAMAGE ASSESSMENT AND CLAIMS

1. **ASSESSMENT OF ALL DAMAGES, MONETARY ITEMS**
2. **TOTAL RESPONSE OPERATION COST**
3. **LEGAL ACTION TAKEN AGAINST POLLUTER AND PENALTIES ENFORCED**
4. **CLAIM PREPARATION AND CLAIMING PROCEDURES**

PART VII EVALUATION

1. **NOTIFICATION AND REPORTING**
2. **RESPONSE ACTION**
3. **INTERNATIONAL/REGIONAL CO-OPERATION**

Annex – 2

Notification/Alert Form

NOTIFICATION/ALERT FORM

(To be used for oil spills exceeding 50 barrels of oil)

TO	:	MEMAC- BAHRAIN, FAX NO: 00973 17 274551
		e-mail memac@batelco.com.bh
FROM	:
COUNTRY	:
DATE	:	/ /
TIME	:
INCIDENT	:	COLLISION, GROUNDING, WAR RELATED, ACCIDENT, PIPE RUPTURE, LOADING, UNKNOWN REASONS
LOCATIONS	:	LAT (..... DEG) (..... MIN) (..... SEC) LONG (..... DEG) (..... MIN) (..... SEC)
TYPE OF OIL	:
QUANTITY	: BARRELS
VELOCITY OF THE SLICK	:
DIRECTION OF THE SLICK	: DEGREE
POLLUTION THREAT	:	HIGH RISK, MODERATE RISK, LOW RISK, NO RISK
HELP REQUIRED	:	YES, NO STAND-BY
TYPE OF HELP	:
WHEN NEEDED	:
NAME:		SIGNATURE

Annex – 3

Oil Spill Progress Report

NOTIFICATION AND REPORTING FORMAT FOR OIL SPILLS
(To be used for oil spills exceeding 50 barrels of oil)

OIL SPILL PROGRESS REPORT

REPORT NO. _____

1		Date of Incident and Time (Local Time)					
2		Spill Location	Name of Country	Place of Spill	Co-ordinates Lat Long	Present Spill Location Lat..... Long.....	
3		Type of Spill.....		Volume & Velocity			
4		Amount of oil spilled and the rate of discharge (in barrels)..... Spill Trajectory					
5		Source and Cause of Pollution			In case of vessel V/L Name..... V/L Nationality..... V/L year Built..... V/L Place Built..... V/L Displacement..... Masters Name..... Quantities loaded.....		
6	6.1	Pollution Threat - Nearest Sensitive Areas (Location, Distance)..... - Category of Risk (High Risk, Normal Risk, Low Risk, No Risk)					
	6.2	Weather Conditions - Wind Speed/Direction			- Forecast for the next 24 hours		
		- Air Temp					
	6.3	Sea State State and Visibility..... - Current Speed			- Direction - Tide for the next 24 hours		

7		Action Taken in Response to the Spill in Brief:		
		- Booming.....	- Skimming.....	- Dispersion, etc
8		If Dispersant has been used please specify: a. Trade Name b. Manufacturer..... c. Quantity used d. Method of application e. Area Covered f. Depth & Distance from Shoreline g. Nature of nearest shore		
9		Oil Recovery Rate (Barrels/hour)		
10		Necessary action taken for protection of sensitive areas (in brief).....		
11		Any sub-regional or regional assistance required (identify material, equipment type and quality required and when needed)		
12		Any other relevant information		

- P.S. 1. Please use additional pages if required/
 2. This form should be completed in capital letters or typed.

AUTHORISED SIGNATURE & POSITION

Annex – 4

Evidence from Various Sources That Can Be Provided By Contracting States

	BAHRAIN	IR. IRAN	KUWAIT	OMAN	QATAR	SAUDI ARABIA	UAE
1. Written Statement		Yes			Yes	Yes	
2. Photographs		Yes			Yes	Yes	
3. Video		Yes				Yes	
4. Side Looking Airborne Radar		No				No	
5. Infra Red Sensor		No				No	
6. Ultra Violet Scanner		No				No	
7. Forward looking Infra Red Camera		No				No	
8. Position System		Yes				Yes	
9. Oil Samples		Yes			Yes	Yes	
10. Darkness Identification		No				Yes	
11. Satellite		No				Yes	
12. Use of Colour Code		No			Yes	Yes	
13. Radio Recording		Where is available				Yes	
14. Ports Inspection Report		Yes				Yes	
15. Computer Modeling		Yes				Yes	

The following definitions have been used in Table 3: -

Statement: a statement contains the information collected when observing the MARPOL 73/78 violations, which can take the following form according to national law:

- witness statement : a report from a person of the general public with regard to a discharge or pollution;
- official statement : an official report (process-verbal) written and signed by an accredited officer or the statement in writing taken by an accredited officer from the witness statement.

Photographs: taken with a photographic camera or taken by special cameras with annotation (date, time, and position of the observation etc.).

(Side Looking Airborne Radar) SLAR: instrument capable of detecting possible surface pollution based on the difference between the waves suppressed by a slick and the normal waves of the surrounding waters.

Data annotation: a line of data presenting e.g. date, time, position heading superimposed on any imagery (data annotation can be obtained from navigation systems and integrated into sensors).

(Infra Red sensor)IR: a sensor which provides a picture of the relative temperature differences which also indicates thicker and thinner parts of the oil slick (short-range).

(Forward Looking Infra Red camera) FLIR: similar to IR-sensor but with a different angle of view.

Positioning system: a system used to obtain the exact position of the observing platform. It includes Decca, GPS or other navigation systems.

Oil sample analyses by GC/MS: Gas Chromatography/Mass Spectrometry is a technique that can give a detailed spectrum of the analysed oil, i.e. its “finger print”.

Darkness identification: identification of a ship’s name in darkness by electronic means or by searchlight.

Satellite: satellites equipped with SAR (radar) can at regular intervals (depending on the orbits) provide information on possible discharges. The system should be considered as a limited tool complementing aerial surveillance.

Use of colour code: the colour of the oil spill depends on the layer thickness, and/or the type of oil. With the colour code, it is sometimes possible to estimate the amount of spilled oil.

Radio recording: the conversation with the suspected violator recorded on tape recorder or video recorder.

Port inspection reports: a report from the Port State Inspector with copies of all relevant documents. On request, the Port State Officer can take oil samples to be analysed at a later stage.

Computer modelling: A digital calculation model can be used to backtrack from the position of a detected oil spill, with the objective of finding the original position of the discharge. The same model can also predict the drift of the slick.



Annex – 5

(The Equipment Stockpile)

Only within the States