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Appendix 1. OTRA: List of references

OTRA was established by Jean-Yves HUET as a French registered company, specializing in Oil Spill Response and Preparedness Consultancy in May 1995.

The company provides Consultancy services in oil spill preparedness and response. (Training and Exercises, Contingency Planning, Organization for the Management of Oil Spill related incidents, Management of oil spill clean-up operations, management of wastes from oil spill response operations, etc.)

Publications

"LULA" Large Scale Oil Spill Response Exercise: a Unique Opportunity to Test a Full Set of Spilled Oil Monitoring and Modeling Techniques, C. Michel, Total E&P Angola, L. Cazes, Total E&P Angola, C. Eygun, Total E&P Angola, L. Page-Jones, OTRA, JY. Huet, OTRA, SPE Annual Technical Conference and Exhibition, Amsterdam, the Netherlands, 27–29 October 2014, 25 p.

Response to a major oil spill from a blow-out incident: the Very Full Scale Exercise "LULA", C. Eygun, Total E&P Angola, L. Cazes, Total E&P Angola, C. Michel, Total E&P Angola, JY. Huet, OTRA, L. Page-Jones, OTRA, SPE African Health, Safety, Security, and Environment and Social Responsibility Conference and Exhibition, Nairobi, Kenya, 10–12 June 2014, 13 p.

LULA Exercise: Testing the oil spill response to a deep sea blow-out, with a unique combination of surface and subsea response techniques, C. Michel, Total E&P Angola, L. Cazes, Total E&P Angola, C. Eygun, Total E&P Angola, L. Page-Jones, OTRA, J.Y. Huet, OTRA, International Petroleum Technology Conference, Kuala Lumpur, Malaysia, 10-12 December 2014., 17 p.

Sensitivity mapping for oil spill response, OGP Report Number 477, Date of publication: July 2012, IPIECA/IMO/OGP 2011, 36 p.

Guide for Oil Spill Sensitivity Mapping and its Integration into Preparedness and Response Systems in the West and Central Africa (WACAF) Region, GI WACAF project, IMO / IPIECA, 2008,

Mediterranean Oil Spill Waste Management Guidelines, MEDITERRANEAN ACTION PLAN (MAP) REGIONAL MARINE POLLUTION EMERGENCY RESPONSE CENTRE FOR THE MEDITERRANEAN SEA (REMPEC), Regional Information System, Part D, Section 12 – RIS/D/12, www.rempec.org, May 2011, 133 p.

Oil spill response and preparedness operations

2010	Madagascar	Team leader (for Le Floch Depollution) for shoreline cleanup on the South coast of Madagascar after the grounding of the GULSER ANA.
2008	Libya	AL JURF (Mabrouk Oil Operations, Tripoli, Libya): assistance to TOTAL in Libya for re-enforced preparedness, management of external assistance mobilized in Tripoli (Oil Spill Response Ltd) and preparation of a specific contingency plan following a risk of blow-out due to a drilling incident (7 months, May to December).
2008	Angola	OTRA was called by Total E&P Angola to assist in the response to the oil spill which occurred at the loading buoy on the DALIA oil field, offshore Angola. The service provided to TEPA consisted of an assistance for aerial surveillance of the slick, for the implementation of the response operations, for the management of the incident within the crisis management Unit set up by TEPA, which was in charge of proposing the appropriate response strategies, etc.
2008	France	Donges TOTAL refinery accidental spill: team leader for shoreline cleanup (rip-rap, beach and quayside), reporting.
2006	Lebanon	Tripoli JYEH power plant bombing: team leader (for Le Floch Depollution) for shoreline cleanup (beach and rocky shore), reporting and mapping after the bombing of the fuel tanks at the power station of Jiyeh. The assistance consisted of surveys of affected areas, testing shoreline cleanup techniques, assisting in managing the cleanup operation in Tripoli.
2006	France	HAPPY BRIDE, Donges TOTAL refinery: team leader (for Le Floch Depollution) for shoreline cleanup, rip-rap, quayside after the collision of the vessels SIGMAGAS with the HAPPY BRIDE, reporting and mapping (Jan. to march)
2000	Angola	Jean-Yves HUET assisted CABGOC on site during the oil spill incident which occurred at the Molongo terminal. Advice on clean-up and general handling claims was provided to Cabgoc.

Contingency planning and training for the oil industry

2014	Angola	Full revision of the oil spill contingency plan of TOTAL Exploration & Production Angola, to include lessons learned from the 2013 LULA exercise.
2014	Yemen	Review of the oil spill contingency plan of the Bal Haf plant for YEMGAS LNG plant (with Le Floch Depollution). Development of oil spill response operational procedures for the port of Bal Haf for YEMGAS LNG plant (Yemen, 2008) including: Organisation and running of a “port containment and recovery” exercises.
2014	South Africa	Development of the oil spill contingency plan of TEP South Africa, before the drilling campaign off Mossel Bay.
2013 2014	- Ivory Coast	Development of the Oil Spill Contingency Plan for TEP Cote d’Ivoire for the drilling campaign.
2012	Angola	Revision of the oil spill contingency plan of TOTAL Exploration & Production Angola.
2008	Libya	Revision of the AL JURF Oil Spill Contingency Plan for Mabrouk Oil Operations including: Offshore and General Affiliate oil spill contingency plans, Operational procedures, Onshore and Offshore Oil Spill Response Handbook and Oil Spill Coastal Sensitivity maps (helicopter survey, use of GIS).
2007	Romania	Development of the Oil Spill Contingency Plan, Response Handbook and Coastal Sensitivity maps for Midia Marine Terminal of Rompetrol including: Training of personnel (operators, On-Scene-Commanders and managers), Organisation and running of exercises: “offshore containment / recovery”, “port containment / recovery” and “beach cleanup” (with Le Floch Depollution) and Development of operational procedures and maintenance programme for the oil spill response equipment.
2006	Cameroon	Participation in the revision of the Total Exploration & Production Cameroun oil spill contingency plan (in collaboration with Cedre).
2005 2006	- Angola	Development of the DALIA FPSO Oil Spill Contingency Plan for TOTAL Exploration & Production Angola. Update of the Oil Spill Contingency Plans of GIRASSOL FPSO, of Block 3 operations, of SOYO operations and of Affiliate for TOTAL Exploration & Production Angola including: Oil Spill Response Handbook and Oil spill coastal sensitivity mapping.
2002	Angola	Reviewing the existing Oil Spill Contingency Plan for Cabinda Gulf Oil Company. This includes designing area-specific plans, and reviewing oil spill response strategies for the various oil spill scenarios identified.
2001	Angola	Reviewing Texaco Angola’s Oil Spill Contingency Plan for their operations in Block 2.

- 2001 **Russia** Reviewing the oil spill response arrangements in place at the CPC terminal in Novorossiysk. Based on this review, a training of the oil spill response management team was organized and a full-blown oil spill response exercise was designed and run by OTRA. This oil spill response exercise included the deployment of oil spill response resources (oil spill response vessels, and equipment), as well as the management of the oil spill response operation from the Incident Command Center.
- 2000 **Angola** Involvement in the development of the Oil Spill Contingency Plan relating to drilling activities in Elf-operated Block 17 in Angola. OTRA was a subcontractor of URS Greiner in the process.
- 1997 **India** Assessment of Oil Spill response capabilities of India for International Response Corporation (IRC), with a view to providing advice and services to the Indian National Oil Company, ONGC
- 1996 **Angola** Assessment of Elf's oil spill response capabilities in the countries of West Africa and recommendations for improvement.
- 1996 **Ivory Coast** Study on exposure to oil spills of a refinery in Abidjan.

Contingency planning for International Organizations and governments

2011- 2012	Morocco	Revision of the National Oil Spill Contingency Plan of Morocco.
2010- 2012	South Africa, Mozambique, Tanzania, Kenya, Comoros, Madagascar, Seychelles, Mauritius	Oil spill consultant for the GEF-Western Indian Ocean marine highway development and coastal and marine contamination prevention project, GEF-WIOMHD »: Revision and update of the National Oil Spill Contingency Plans, Tier 2 and 3 training exercises, Train the trainers.
2009	Djibouti	Development of the PLAN POLMER, National Oil and Hazardous and Noxious Substances Spill Contingency Plan for the Republic of Djibouti.
2003- 2004	Comoros, Madagascar, Mauritius, Seychelles.	Review and update of the National Oil Spill Contingency Plans for the Western Indian Ocean Islands and of the Regional Oil Spill Contingency Plan.
2002	Morocco	Development of the Oil Spill Contingency Plan for the port of Nador, in cooperation with the Ministry of Environment and the ODEP (National Port Authorities). The plan takes into account the existing National organization in Morocco, and the existence of the national stockpiles of equipment in Nador and Casablanca.
2000	Mauritius	Involvement in the Regional Oil Spill Contingency Planning project - ROSCPP, in the Western Indian Ocean Islands.
2000	Madagascar	Revision of the Oil Spill Contingency Planning of workshop in Tamatave: Running a workshop with local and national authorities.
1999 - 2000	Mauritius	Assessing Mauritius National oil spill preparedness and response system, and running a series of three oil spill response exercises at National level.
1998	Angola	Drafting of the National Oil Spill Contingency Plan in Angola as part of the assistance provided by the oil industry to the Angola National authorities.
1997	Western Indian Ocean Islands (Comoros, Madagascar, Mauritius, Seychelles)	Review of the Oil Spill Response and Search and Rescue arrangements in the states of the Indian Ocean Commission. Defining a Project Implementation Plan to improve the regional capability for funding by European Community (EEC).

Coastal Sensitivity Mapping for oil spill response using GIS

2011	Senegal	Technical workshop on the development of the national oil spill coastal sensitivity mapping. In the framework of the GIWACAF project, OTRA trained the technical staff of the Senegalese Organizations, developed the sensitivity maps with the working groups from a GIS previously developed, and involved in the development of an action plan to continue the identification project of the most sensitive sites.
2010	Angola	Development of a socio-environmental coastal sensitivity GIS for Northern Angola for TOTAL DGEP/HSE/ ENV.
2010	TOTAL	Review of the GIS specification for TOTAL DGEP/HSE/ ENV « Spécification Générale/ Environnement, Développement d'un SIG Environnemental et Sociétal ».
2010	Democratic Republic of Congo	National workshop on the development of oil spill sensitivity maps and test of the National Oil of Spill Contingency Plan (in the framework of the GIWACAF project).
2009	Djibouti	Development of a coastal sensitivity GIS for PLAN POLMER
2009	Benin	National workshop on the Benin National Oil Spill Contingency Plan (NOSCP) and the development of oil spill sensitivity map (in the framework of the GIWACAF project).
2008	Libya	Development of a coastal sensitivity GIS from Tunisia border to Misratah for Total E&P Libya.
2008	Morocco	National Workshop on Sensitivity Mapping in the field of preparedness for and response to marine pollution. The objective of the workshop was to provide to competent authorities with the basic knowledge for the development of sensitivity maps for the Moroccan coastline, to introduce the related methodology, to define terms of collaboration between the different entities involved and to agree upon an action plan for the development of the maps. Sensitivity maps will enable decision makers and operational involved in response operations to better define response strategies and enhance the implementation of response operations.
2008	Ivory Coast	National training workshop on coastal sensitivity mapping and oil spill contingency planning (in the framework of the GIWACAF project)..
2008	Nigeria	National Workshop on Environmental Sensitivity Index (ESI) Mapping for Nigeria and dispersant use policy (in the framework of the GIWACAF project)..
2007	Romania	Development of a coastal sensitivity GIS from North of Midia to South of Constantza for RomPetrol.
2006	France	Atlas POLMAR “Département du Pas-de-Calais and of “Département du Nord”.

- 2006 **Angola** Development of a coastal sensitivity GIS in Northern Angola for TOTAL Exploration & Production.
- 2004 **France** Designing an oil spill coastal sensitivity atlas (GIS and paper), and clean-up guidelines, for the Pas-de-Calais department - North of France. OTRA was awarded the tender for the development of these maps, and the conversion of the work into a web-based GIS.
- 2003 **Angola** Developing sensitivity maps for areas of operation of ChevronTexaco in Angola. These sensitivity maps cover the shorelines of the Cabinda Province, and the area south of Soyo. These maps were done using a Geographical Information System (GIS). The data in the GIS was then published with an Internet interface, for online consultation by ChevronTexaco's employees. The Web-based version was integrated into the Angolan Incident Management System (AIMS), set up on ChevronTexaco Intranet.
- 2003 **Mauritius** An atlas was developed for the coastline of Mauritius in 1984. This paper atlas was not easily updatable. OTRA organized the conversion of the existing atlas into a Geographical Information System (GIS) and integrated updates provided by the Mauritian Department of Environment into the GIS. The final version of the work was delivered as a web-based GIS and integrated into web site relating to the National Oil Spill Contingency Plan of Mauritius, which OTRA also developed. The whole work is intended to be posted on the main server of the Department of Environment.

Training and Exercises

2013	Angola	AS oil spill advisors for TOTAL affiliate in Angola, two personnel of OTRA were heavily involved in the preparation and running of the LULA Full Scale Exercise, which was run for the Total group in November 2013. The exercise was based on a blowout scenario offshore Angola and included all aspect of the response, including the actual deployment of a Subsea Dispersant Injection system which was mobilized from Norway, as well as the deployment of an extensive array of resources and personnel for Monitoring of oil spills, and surface response.
2010 - 2011	Kenya, Madagascar, Mozambique, Mauritius, South Africa, Seychelles	Table top oil spill management exercise. National training of the onsite responders and On Scene Commanders and National training of the personnel of the National Incident management organization. National full Scale NOSCP exercise & ESA maps validation (in the framework of the GEF-Western Indian Ocean marine highway development and coastal and marine contamination prevention project).
2011	Congo (RC)	Joint government-industry exercise to test and update the National Oil Spill Contingency Plan, Pointe Noire, Republic of Congo (in the framework of the GIWACAF project).
2010	Madagascar, Mauritius,	National training of the onsite responders and On Scene Commanders and National training of the personnel of the National Incident management organization (in the framework of the GEF-Western Indian Ocean marine highway development and coastal and marine contamination prevention project).
2006	Cameroon	OTRA was asked to assist CSIR (South Africa) in running an oil spill training course for Cameroon nationals. The 3 days training course was run at the CSIR facility in Stellenbosch.
2004	Angola	Running a series of training sessions in Angola. The objective of the training was to familiarize TOTAL personnel with the provisions of the Oil Spill Contingency Plans recently developed by OSRL, to cover TOTAL operations in Angola (Shore-based operations in SOYO area, Offshore operations in Blocks 3 and 17, and activities in Luanda).
2004	Mauritania	Running an IMO Level 3 Training session for national personnel involved in the National Oil Spill Contingency Plan of Mauritania. Two representatives of Senegal also attended the Training.

- 2003 **Comoros,
Madagascar,
Mauritius**
- Running a series of 4 three-day exercises in the Comoros. These exercises included oil spill management and deployment of the equipment acquired by the Regional Oil Spill Contingency Planning Project of the Indian Ocean Islands. The exercises took place in Anjouan, Moheli and Ngazidja.
- Running a series of 6 three-day exercises in Madagascar. These exercises included oil spill management and deployment of the equipment acquired by the Regional Oil Spill Contingency Planning Project of the Indian Ocean Islands. The exercises took place in Diego-Suarez, Tamatave, Majunga, Manakara, Tulear as well as at national level in Antananarivo
- Running a series of 6 Crisis Management exercises. These two-day exercises aimed at assisting National and Provincial authorities in Madagascar in getting familiar with their National Oil Spill Contingency Plan and the handling of Oil Spill Response operations.
- Organisation of a Regional exercise for the 4 countries of the Indian Ocean Commission. This exercise took place in Antananarivo, and was organized at the Centre set up by the Ministry of Environment of Madagascar for the management of oil spill response operations.
- Organisation of a second Regional exercise for the 4 countries of the Indian Ocean Commission. This exercise took place in Mauritius, and was organized at the Oil Spill Response Center of the Ministry of Environment of Mauritius. Equipment was deployed by personnel of the Ministries involved in Oil Spill Response (Coast Guard, Special Mobile Force, Mauritius Port Authority, etc.)
- Running a Crisis Management exercise. This two-day exercise aimed at assisting the authorities in getting familiar with their National Oil Spill Contingency Plan
- Dispersant Workshop - OTRA organized a Regional dispersant workshop in Mauritius. Attended by representatives of the relevant government organizations (mainly of Ministries of Environment) of the 4 countries (Comoros, Madagascar, Mauritius, and Seychelles), the objective of the workshop was to provide the expertise needed to define suitable policies for the use of dispersants in the region.
- Train the Trainers workshop. OTRA prepared the documentation needed for identified trainers in the 4 countries of the IOC. A 5 day training was then organized in Mauritius. The training material prepared for the session included presentations and background reports covering the whole spectrum of oil spill response. Training on pedagogy was also provided and Cedre took charge of this task, which involved presentation of lectures by the trainees using the training material provided.
- 2003 **Senegal**
- OTRA organised a week training for the personnel of the SAR refinery in Dakar. This week of training included a mixture of classroom lectures and deployment of equipment exercises.

2002 to 2003	Guinea, Congo, Mauritania, Benin, Ivory Coast, Senegal, Djibouti	Participating in the Global Initiative process, initiated by IMO and IPIECA which aims at assisting African countries in the process of establishing systems for preparedness and response to oil spills. In this context, a number of seminars were already held in Angola, Namibia, Mozambique, Ivory Coast, Mauritania, etc. Jean-Yves Huet acted as the mission leader for a number of seminars held in African countries.
2002	Comoros, Madagascar, Mauritius,	Running the equipment operators training. This activity included classroom and on-site training.
2000 to 2002	South Africa	Assistance to the Department of Environmental Affairs and Tourism (DEAT) in running three training sessions (5-days each) in Cape Town. This training was run as part of the initiative of the South African government to assist in the Regional Oil Spill Contingency Planning Project for the Indian Ocean Islands.
2001	Madagascar	Receipt of oil spill response equipment provided to the ports of Tamatave and Majunga, within the Regional Oil Spill Contingency Planning Project. This commissioning was an opportunity to provide an initial training for the operators in charge of the equipment.
2000	Angola	Involvement in the annual series of two training sessions and oil spill response exercises for employees of Cabinda Gulf Oil Company in Cabinda (North Angola). This included training of the personnel and designing and running an oil spill response exercise, based on the Incident Command System.
2001	Mauritius	Running a series of 2 Crisis Management exercises. This two-day exercise aimed at assisting National authorities of Mauritius in getting familiar with their National Oil Spill Contingency Plan and the handling of Oil Spill Response operations. This exercise took place at the National Oil Spill Response Centre of Ministry of Environment.
1998	Egypt	Designing and running a National Alarm exercise in Egypt. This project was part of the work done to implement a new National Oil Spill Contingency Plan in Egypt. It involved a month in Egypt, in Cairo, on the Mediterranean coast (Alexandria), and in the Gulf of Suez (Suez, Ras Gharib, etc.), for the review of the Contingency Planning arrangements and preparation of the exercises. Two series of exercises were then run, and the overall capability of the new Egyptian organisation was tested. Recommendations for improvement were then issued.
1996 to 2001	Angola	Running the annual oil spill response training and exercise program for Texaco Angola.

- 1996 **Gabon** Running an Oil Spill Awareness Seminar in Gabon. This was done at the initiative of Shell Gabon, and aimed at launching a cooperation process between the government agencies and the oil industry.
- 1995 **Egypt** Designing, organizing and running a joint Oil Spill Response Exercise for sub-regional eastern Mediterranean Plan (Cyprus, Egypt and Israel). This three-day exercise involved realistic activation of command structures of the countries, as well as actual mobilization of oil spill response equipment, support vessels and oil spill response teams from the countries to Port Said (Egypt). A joint deployment of resources took place offshore Port Said.

Development of oil spill response tools

- 2013 **Angola** Development for the 2013 LULA exercise of a tool to define the oil spill response strategy in case of a blowout situation.
- 2011 **France** Development of an application for the Oil Spill Responders called OSRA. This application is composed of four modules: Unit converter, Oil Slick trajectory (an oil drift model), Quantification of oil on water, Dispersion from ships (to estimate the Dispersion efficiency). The Application can be used from an USB stick without Internet connection or from server.
- 2011 **France** Update of the website giwacaf.org (design, content and module) from a Content Management System which provides new features and communications tools, including a mapping module from the Google Map API, oil spill response equipment, Country Profile.
- 2011 **France** Development of an intranet website for the management of training course (monitoring, planning, and report) and the management of weekly call sheet for Crisis Unit members.
- 2011 **Countries of the Indian Ocean Region** Development of the "Western Indian Ocean Marine Pollution Regional Coordination Centre" website: www.wiomprcc-ioc.org. The Website is a Communication tool for the activities of the RCC (workshop reports, news and events) and allows to centralize and disseminate of all documents and tools related to preparedness and response to accidental marine pollutions in the Western Indian Ocean. In this framework, the website provides a specific section to the national focal point of the Western Indian Ocean Countries (access: to the PORLEP form, to a section to maintain updated the status level of the oil spill preparedness of the countries, to the list of the oil spill response equipment available in the region. OTRA developed the website from a Content Management System and realised a File Sharing tool system between the members of the RCC and the focal points.
- 2009-2014 **Angola** Development and management of Intranet web site for Emergency Response and Oil Spill Response for TEPA. This gives rapid and secure access to information needed during the response to an incident to CMU members in Luanda.
- 2009 **France** Development of the electronic version of the "Mediterranean Waste Management Decision Support Tool" (website with private access) for the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea – REMPEC to facilitate and guide Mediterranean coastal States in developing/improving their national waste management strategy and in defining the most appropriate waste stream for a given type of waste, according to the country's capacity and legislation.
- 2008 **Romania** Development of web sites dedicated to oil spill response management for Rompetrol.
- 2007 **France** Overhaul of the website REMPEC, www.rempec.org, (design and functionalities). In order to ensure a management of REMPEC website, OTRA developed a specific Content Management

System composed by different modules (article, news, tools and documentation, maps). The site provides a system to manage the country profiles by the focal points with a secure access and the automatic production of statement in PDF format. OTRA developed also a file sharing tool system (to share heavy files between personnel with secure access).

- 2007 **France** Development of the interactive giwacaf.org website to ensure good communication of the six mains objectives of the project. The website also provides real-time preparedness status reports, updated directly from the country profile information. All mission reports and technical guidelines are also downloadable.
- 2005 **France** Participation in the development of ARGEPOL system for the French authorities (live internet-GIS based spill and response monitoring system) with Cedre.
- 2002 **Angola** Development of web sites dedicated to oil spill response management for Chevron.
- 1999 **Angola** Designing an Emergency Management System for Texaco Angola, based on Intranet / Internet technologies. This system provides Emergency Teams with all information relevant to the Management of a Crisis situation, such as an oil spill. It provides access to an Oil Spill Response Equipment database, a contact database, and guidelines for the response to oil Spill incidents, etc. and is accessed through Texaco's Intranet.
- 1996 **Angola** Assessment of the Incident Management System of Texaco Angola. Recommendations for improvement of the system were implemented and are used as a standard for oil spill response and preparedness in Angola.

Assistance to International Organizations for Contingency Planning

INTERNATIONAL SEMINARS

- 2012 **Namibia** Sub regional workshop for the GI WACAF
- 2010 **Egypt** Regional contingency planning for the Red Sea and Gulf of Aden” organized by PERSGA.
- 2009 **France** Regional Government and Industry Workshop on Cooperation, Preparedness for and Response to Oil Spills in the Mediterranean Sea. OTRA assisted the REMPEC during the workshop (presentation and intervention during the national consultation), submits some recommendations aimed at strengthening the industry network and at ensuring active participation of MOIG’s members in this cooperation, proposed a five year strategic plan defining the main objective to be achieved by the end the five year period, a two year implementation programme for the biennium 2010-2011, and a program of activities that can be carried out with minimal effort funding and resources.
- 2007– **Congo,** Biennium of the IMO/ IPIECA Global Initiative for Western and Central Africa.
- 2009 **Cameroon**
- 2007 **Turkey** Regional workshop for the Black Sea, organized by OSPRI
- 2007 **Ghana** Regional Workshop for the development and the harmonisation of environmental sensitivity mapping in West and Central Africa (in the framework of the GIWACAF project).
- 2006 **Gabon** GI WACAF Project Launch; seminar on the OPRC-HNS Protocol and other IMO Convention; regional OPRC Level III Course (in the framework of the GIWACAF project).
- 1997 to **Angola** First Minpet/IMO/IPIECA seminar in Luanda. This first seminar established the national organization for developing the National Oil Spill Contingency Plan for Angola. It established the Ministry of Petroleum as leading agency.
- 1999
- Second Minpet/IMO/IPIECA seminar. During this second seminar, the Strategy Plan was examined and approved by all parties involved. The presence if the IOPC Fund was asked, so that legal departments of the various Angolan ministries are aware of all legal implications of the International Compensation schemes.
- 1996 **Angola** Facilitator in the International Seminar held in Luanda for the APPA (African Petroleum Producers of Africa).
- 1996 **South Africa** Facilitator at the IMO/IPIECA Regional Seminar in Cape Town. This seminar was part of the Global Initiative, aiming at facilitating the implementation of the OPRC Convention in Africa.

NATIONAL WORKSHOPS

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|------|---|---|
| 2011 | Israel | National Pilot Training Course on Oil Spill Waste management in Israel. The pilot training course is aimed at providing theoretical information on oily waste management and at learning how to use the Mediterranean Oil Spill Waste Management Decision Support Tool. OTRA prepared and run the theoretical session and a practical session to assist the participants in understanding and making use the Tool with a view to providing them with the required knowledge to become fully independent to maintain updated their national oil spill waste management plan. |
| 2011 | South Africa | National Workshop of the NOSCP review (in the framework of the GEF-Western Indian Ocean marine highway development and coastal and marine contamination prevention project). |
| 2010 | Cape Verde | National workshop on the development of the national oil spill / HNS incident contingency plan for the republic of Cape Verde (in the framework of the GIWACAF project). |
| 2010 | Kenya,
Madagascar,
Mauritius,
Mozambique,
Seychelles,
Tanzania | National workshop for the review and update of the National Oil Spill Contingency Plan and National workshop for the development of the National Dispersant Use Policy (in the framework of the GEF-Western Indian Ocean marine highway development and coastal and marine contamination prevention project). |
| 2010 | Cape Verde | National workshop on the development of national Oil Spill Vulnerability maps for Cape Verde. In the framework of the GI WACAF project, OTRA trained the technical staff of the Cape Verdean Organizations, developed the sensitivity maps with the working groups from a GIS previously developed, and involved in the development of an action plan to continue the identification project of the most sensitive sites. |
| 2010 | Namibia | National workshop to follow-up with expert on the development of the oil spill sensitivity maps and test the National Oil Spill Contingency Plan. In the framework of the GI WACAF project, OTRA trained the technical staff of the Namibian Organizations, developed the sensitivity maps with the working groups from a GIS previously developed, and involved in the development of an action plan to continue the identification project of the most sensitive sites. |
| 2010 | Angola | National workshop for the test and update of the National Oil Spill Contingency Plan And National workshop on the development of national Oil Spill Sensitivity maps (in the framework of the GIWACAF project). |
| 2009 | São Tomé &
Príncipe | National workshop for the development of the National Oil Spill Contingency Plan (in the framework of the GIWACAF project). |
| 2009 | Togo | National Workshop for the Test and the Validation of the National Oil Spill Contingency Plan (in the framework of the GIWACAF project). |

2009	Democratic Republic of Congo	National workshop to launch the National Oil Spill Contingency Plan - Training of national experts on sensitivity mapping (in the framework of the GIWACAF project).
2009	Congo (RC)	National workshop and exercise to test and update the National Oil Spill Contingency Plan, Pointe Noire, Republic of Congo (in the framework of the GIWACAF project).
2008	Gabon	National workshop to test, review and update the National Oil Spill Contingency Plan (in the framework of the GIWACAF project).
2008	Senegal	National Workshop to test and update the reviewed NOSCP, to train on technical aspects of oil spill response and to raise awareness on IOPC Funds mechanisms (in the framework of the GIWACAF project).
2007	Angola	National workshop for the finalization and implementation of the National Oil Spill Contingency Plan of Angola (in the framework of the GIWACAF project).
2007	Cape Verde	National workshop for the Development of a National Oil Spill Contingency Plan for the Cape Verde (in the framework of the GIWACAF project).
2007	Togo	Workshop for the development on the National Oil Spill Contingency Plan of the Republic of Togo (in the framework of the GIWACAF project).
2007	Democratic Republic of Congo	National workshop for the development of a National Marine, river and lake Oil Spill Contingency Plan for the Democratic Republic of Congo (in the framework of the GIWACAF project).
2006	Congo (RC)	Workshop on the National Oil Spill Contingency Plan of the Republic of Congo (in the framework of the GIWACAF project).
2006	Lybia	National IMO Level 3 Oil Spill Response Training Courses organized by the Libya Environmental General Authority
2006	Montenegro	National IMO Level 3 Oil Spill Response Training Courses
2006	Albania	National IMO Level 3 Oil Spill Response Training Courses
2004	Mauritania	National IMO Level 3 Oil Spill Response Training Courses organized by the IMO/ IPIECA Global Initiative for Western and Central Africa.
2004	Congo	National IMO Level 3 Oil Spill Response Training Courses organized by the IMO/ IPIECA Global Initiative for Western and Central Africa.

- 2003 **Mauritius** Management and Media Handling Regional Workshop. OTRA organised this Regional Workshop for the 4 countries of the IOC. Representatives of all 4 island states followed this 5 day workshop. The workshop benefited from the assistance of a journalist specialised in the management of crisis situation.
- 2000 **Benin** Mission leader for the first IMO-IPIECA seminar in Cotonou. The objective of the seminar was to initiate the process of defining a National Oil Spill Contingency Plan for Benin. The main achievement of the workshop was to identify the roles and responsibilities of the various government organization involved in the National Plan, and to outline a plan of action for the development of the plan.
- 1999 **Ivory Coast** Participating in the Global Initiative process, initiated by IMO and IPIECA which aims at assisting African countries in the process of establishing systems for preparedness and response to oil spills.

Appendix 2. Certification for training courses



**Secrétariat
général de la mer**

Le Secrétaire général

Paris, le **06 SEP. 2013**

N° **1406**/SGMER

Affaire suivie par Marie-Sophie DUFU-RICHET
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Le Secrétaire général de la mer

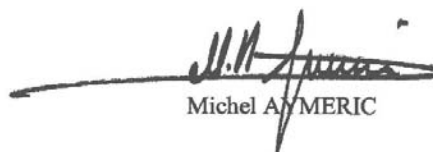
à

Monsieur le Directeur de la société Group LFP

Objet : demande d'habilitation pour la formation à la lutte contre la pollution des hydrocarbures au titre de 2013.

Au titre de l'année 2013, vous avez déposé un dossier de demande d'habilitation pour la formation à la lutte contre la pollution par hydrocarbures conformément au décret 98-431 du 28 mai 1998 relatif à l'habilitation des stages de formation à la lutte contre la pollution. Le dispositif mis en œuvre par le décret susvisé fait actuellement l'objet d'une réflexion en vue d'améliorer les procédures de demande d'habilitation et de permettre une meilleure adaptation des formations aux évolutions de la lutte antipollution.

Aussi, dans cette attente et suite à la réunion du Comité consultatif, l'habilitation 2012 concernant les sociétés OTRA/LE FLOCH Dépollution est prorogée y compris les formations niveau 3 au titre de 2013.



Michel AMERIC