

CV – Jean-Yves HUET

Name of Firm:	OTRA
Address of firm:	17, rue François Villon, 29200, Brest, France
Name of Staff:	Jean-Yves HUET
Position:	Managing Director
Tel:	+33(0)6 16 46 86 50
Mail:	otra@mweb.co.za
Date of Birth:	22 March 1954
Years with Firm/Entity:	19
Nationality:	French

EDUCATION

Ecole Nationale des Travaux Publics de l'Etat Graduated as a Civil Engineer in 1978
Specialities :
"Ports Maritimes et Voies Navigables" : (Maritime ports and inland waterways)
"Génie Sanitaire" : Environmental Engineering i.e. decontamination of waters, drinking water facilities, sewage plants, quality of rivers/coastal waters, etc.

1971: Baccalauréat Serie C - (Pre-university exam - Speciality Maths and Physics), France.

Languages:	Speaking	Reading	Writing
French	Excellent	Excellent	Excellent
English	Excellent	Excellent	Good
Portuguese	Very Good	Very Good	Average

Overview of Professional experience

Since May 1995:

Managing Director of OTRA, French registered oil spill Consultancy Company.

From 1st September 1990 to 30th April 1995: ITOPF

Jean-Yves HUET was employed by the International Tanker Owners Pollution Federation Ltd – ITOPF – (www.itopf.com), as a Senior Technical Advisor. ITOPF is a not-for-profit organisation established on behalf of the world's shipowners to promote an effective response to marine spills of oil, chemicals and other hazardous substances.

From 1985 to 1990: CEDRE

Jean-Yves HUET was employed by the Centre de Documentation, de Recherche et d'Expérimentations sur les pollutions accidentelles des eaux. (CEDRE), in France.

Cedre is a non-profit-making association acting as an operator for the French State. It was created in 1978, in the aftermath of the Amoco Cadiz oil spill, in a bid to be more fully prepared for accidental water pollution and to strengthen the national response organisation. It is responsible, on a national scale, for documentation, research and experimentation on pollutants, their effects and the response means and tools that can be used to combat them. Its role as an advisory body and its expertise encompass both marine and inland waters. It is financed both by government subsidies and by public and private contracts.

It is available around the clock for national and local authorities in charge of response to accidental water pollution according to the legislation in force, whatever the extent of the pollution. The authorities can request specialists to be sent to their response centre or crisis unit.

From 1982 to 1985:

Jean-Yves HUET was employed by the Ministry of Industry, Energy and Research, based in RENNES (France) and was in charge of hydro-electric production and medium voltage electrical lines for the region of Brittany in France.

From 1978 to 1982:

Jean-Yves HUET was employed by the Ministry of Equipment (Department of Transport), based in CAEN, France, and was in charge of Urban Planning.

Relevant professional experience

Work since May 1995: OTRA

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

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

Since its creation, a large amount of OTRA's activity has been done in Africa. Main projects are listed below:

- Technical assessment of various oil spill response operations, and issuing recommendations in ways of improvement of capabilities (Port of Antwerp, Terminal of Saldanha Bay - Uruguay, etc.)
- Designing, organising and running a joint Oil Spill Response Exercise between Cyprus, Egypt and Israel. This three-day exercise involved actual activation of command structures of the three countries, as well as moving of oil spill response equipment to Port Said (Egypt) and joint deployment of resources.
- Consulting for Pentow Marine, company in charge of oil spill response at sea for the Uruguayn government (6 months consultancy);
- Assessment of Elf's oil spill response capabilities in the countries of West Africa and recommendations for improvement;
- Assistance in the co-ordination of International conferences dedicated to Oil Spill Response as Facilitator (IMO/IPIECA Seminar, Cape Town - Uruguay, African Petroleum Producers Association, Luanda – Angola, various IMO-IPIECA Conferences in 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;
- Running annual oil spill Training and Exercises for Texaco Angola from 1996 to 2001.
- Study of exposure to oil spill incidents of a refinery in Abidjan (Ivory Coast);
- 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;
- Review of the Oil Spill Response and Search and Rescue arrangements in the states of the Indian Ocean Commission (Comoros, Madagascar, Mauritius, Reunion, and Seychelles). This study was done for the European Community (EEC), and proposed recommendations for improvement of the preparedness of the Member-states of the Indian Ocean Commission. The outlines of a project for funding by the European Union were proposed, leading to a Regional Cooperation of the member-states in the issue.
- Designing and running a National Alarm exercise in Egypt. This project was part of the works 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 run, and the overall capability of the new Egyptian organisation was tested. Recommendations for improvement were then issued.
- 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 operating in Gabon;
- Involvement in the Regional Contingency Oil Spill Contingency Planning project for the Indian Ocean Islands. This project, concerning Madagascar, the Union of Comoros, Mauritius and Seychelles, was funded by GEF, managed by the World Bank and locally co-ordinated by the Indian Ocean Commission.
 - Participation, as a lecturer in a training session (Cape Town, March 2000)
 - Running a Contingency Planning workshop in Tamatave (Madagascar, 2000)
 - Assessing Mauritius National oil spill preparedness and response system, and running a series of three oil spill response exercises at National level (August 2000). Recommendations were issued as a result of the exercises, with a view to being implemented in the National organization.
 - Receipt of oil spill response equipment provided to the ports of Tamatave and Majunga (Madagascar)
- Finalization of the Regional Contingency Oil Spill Contingency Planning project for the Indian Ocean Islands. OTRA was awarded a US\$ 330.000 contract for the finalization of the project. The contract included the coordination of numerous activities as outlined below. For this project, OTRA sourced and coordinated external expertise relevant to the project. External experts included organizations such as ITOPF, the IOPC Fund, Le

Floch Dépollution, the French manager of the stockpile of equipment in Reunion, as well as individual experts for Contingency Planning, Media Handling, etc. Activities coordinated and run by OTRA included:

- Animation of awareness seminars in the different countries
 - Reviewing local, provincial, national and regional oil spill contingency plans
 - Assisting in the definition of individual countries' national response policy
 - Training of the oil spill response equipment operators
 - Training of members of the national organization
 - Running table-top "crisis management" exercises
 - Running full blown exercises (table-top and equipment deployment)
- Reviewing the oil spill response arrangements in place at the CPC terminal in Novorossiysk (Russia). Based on this review, a training of the oil spill response management team was organized and a full-blown oil spill response exercise 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 Centre.
 - Training in Libya organized for the Libyan Ministry of Environment. Participants in this 10 days training session included government organizations (Ministry of Environment, Maritime Authority, ports, etc.) as well as oil companies operating in Libya
 - Involvement in the cleanup of the oil spill which occurred as a result of the bombing of a power station in the south of Beyrouth (Lebanon) in 2006. OTRA worked as part of the le Floch Dépollution team to test appropriate cleanup techniques, propose solutions and finally cleanup the area around Tripoli in the north of Lebanon, under funding by the Swiss Aid.
 - Running national workshops in Albania and Montenegro for the Regional Marine Emergency Centre (REMPEC), United Nations coordination agency based in Malta for the Mediterranean Sea.

International activities in Africa

- OTRA has been involved in assistance programs led by the IMO and the IPIECA in numerous countries of Africa. From 1998 to 2004, OTRA was a consultant for the IMO and acted as mission leaders for activities in countries including: Angola, Benin, Congo Brazzaville, Gabon, Guinea, Ivory Coast, Mauritania, Senegal, Namibia... These missions were aiming at assisting countries to initiate the process of developing National Oil Spill Contingency Plans. A number of national and regional trainings were also done (level 3 training sessions in Congo and Mauritania).
- Since 2006, OTRA has been involved in the Global Initiative project for Western And Central Africa (GI Wacaf project). This project, initiated by IMO and IPIECA aims at assisting African countries in the process of establishing systems for preparedness and response to oil spills. In this context, OTRA was involved in a number of national activities (Angola, Congo Brazzaville, Nigeria, Congo DRC, Togo, Ghana, Cape Verde, and Angola) as well as in the regional workshop held in Pointe Noire in December 2007. In those activities, OTRA acts as a consultant for the IPIECA. OTRA also put together the web site for the project (www.giwacaf.org).
- Between 2010-2012, OTRA was a Trainers for the project GEF – Global Environmental facility - Western Indian Ocean marine highway development and coastal and marine contamination prevention project, GEF-WIOMPH – Environmental Components B & C. He organised and run training courses (OPRC level 1, 2, 3), table-top and full scale exercises in several Eastern countries of Africa (Seychelles, Madagascar, Mauritius, Tanzania, Kenya, Mozambique, France).

Activities in Angola

Assistance in the development of a National Oil Spill Contingency Plan in Angola.

- OTRA acted as the Oil Industry Consultant in Angola to coordinate assistance provided by the Petroleum Industry to the Angolan government. This included organising three Workshops in Luanda with the International Maritime Organization (IMO), the International Petroleum Industry Environment Conservation Agency (IPIECA), the various Angolan Ministries involved in the National Contingency Planning process, and the Petroleum Industry operating in Angola. OTRA also prepared the draft of the National Oil Spill Contingency Plan, which was the base of a validation workshop held in Luanda in November 2000.
- In 2003, OTRA was asked by the IMO to prepare a Project Implementation Plan document outlining the detailed action plan for implementing the National Oil Spill Contingency Plan in Angola. This document served as the base for a national workshop held in Luanda in October 2007, and is used by the Ministry of Petroleum (MinPet) as an action plan.

Consulting for oil companies in Angola

- From 1996 to 2001, OTRA provided consultancy services to Texaco Angola. Among the activities developed for Texaco:
 - Developing and updating of contingency plans for Texaco operations in Angola.
 - Running the annual oil spill response training and exercises for Texaco Angola.
 - Developing sensitivity maps using ArcView Geographical Information System (GIS) for the coastal area bordering Block 2 in Angola (Luanda to Soyo and Cabinda shoreline).
 - 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 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. It was accessed through Texaco's Intranet.
- Designing and running a Tier 2 Oil Spill Response drill for the Angolan Oil Companies. This exercise, run in September 1999, tested the mutual assistance arrangements of the main oil operators in Angola, and involved the participation of the relevant government ministries playing a role in the Angolan organization for oil spill response.
- Involvement in the development of the Oil Spill Contingency Plan relating to drilling activities in Elf-operated Block 17 in 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.
- 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.
- Since end of 2004, OTRA has provided consultancy services to Total E&P Angola:
 - Oil Spill Contingency Plans for TEPA activities (Publishing of Revision 0 in December 2004, Preparation of Revision 1)
 - Liaising with oil spill equipment specialists for the definition of oil spill response strategies.
 - Training of DHSE department and Girassol personnel
 - Participating in the preparation of and running of exercises leading to the 2007, oil spill based Full Scale Exercise

- Assistance in Luanda and offshore Angola to the Crisis Management Unit (CMU) for the response to an oil spill at an offshore facility. (February-March 2008)
- Since end of 2009, OTRA has worked in Angola for Total Exploration and Production Angola as an "Oil Spill Response Advisor", in charge of (1) the oil spill preparedness of the subsidiary and (2) the technical assistance in case of an incident.
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From 1st September 1990 to 30th April 1995: Jean-Yves HUET was employed by the International Tanker Owners Pollution Federation Ltd (ITOPF), as a Senior Technical Advisor.

The main activities included:

- Response to oil spills, as on site technical adviser on behalf of tanker owners;
- Assessment of damages created by oil spills. This involved surveys, and most of the time co-ordinating experts called in to assist in the assessment. An important activity in this field is the assessment of damage to fisheries;
- Technical assessment of claims for compensation presented by "victims" to the insurers of the tanker involved in the spill;
- Training, involving numerous lectures at training courses organised by international organisations, oil companies, etc.;
- Oil spill exercises, mainly due to the new requirements of the OPA '90 legislation, which resulted recently in an increased activity in this sector.
- Contingency planning.

From 1985 to 1990 : Jean-Yves HUET was employed by the Centre de Documentation, de Recherche et d'Expérimentations sur les pollutions accidentelles des eaux. (CEDRE), in France

The activities of CEDRE, and my personal involvement can be summarised as follows :

Research & Development about techniques, equipment and products.

This is done through studies, involving laboratory and/or field tests. I was responsible of the R&D projects related to shoreline clean-up, including storage and disposal of oily wastes. I also conducted a few studies related to chemical spills.

Response to oil spills.

CEDRE maintains a 24hr standby for response to spills. Response can consist in providing technical assistance from the office, as is mainly the case for chemical spills, or in being more directly involved as in case of oil spills. While in CEDRE, I was involved in a few incidents.

Training.

CEDRE is involved in numerous training programs, either by lecturing at set up conferences, or by running training programs in-house. I organised and ran a number of training courses, including two week practical training for oil company, one week courses for the European Union focused on shoreline clean-up, one week training courses for government personnel in charge of oil spill response (Ministry of Equipment). These courses were run on a regular basis.

Maintenance of databases and use of computer models.

CEDRE has gathered numerous data, which are kept in databases. A number of computer models were also been bought or developed. As the head of the "computer" department I was involved in:

- Designing the computer policy in CEDRE;
- Implementing databases, such as chemical databases, addresses and contact databases;
- Assessing computer models, and/or implementing them. US Coast Guard Hazard Assessment Computer System (H.A.C.S.) was adapted to French needs and it was set up on a remote VAX owned by one of CEDRE's partners. The model was then used to check its limits, and validity. Another important project was to implement and assess a computerised decision aid system funded by the European Union, called SEABEL. This system covered chemical and oil spills, and included a number of modules, for which data relevant to French situation had to be gathered and implemented.
- Adapting a computer program for the calculation of tension in floating booms and testing boom deployment plans for the French National Contingency Plans (POLMAR Plans).

From 1982 to 1985 : Employed by the Ministry of Industry, Energy and Research, based in RENNES (France).

I was posted in department of "Energy", and was in charge of following activities:

- Technical and administrative control of existing hydro-electric plants in Brittany, which included regular safety visits of the dams, overseeing any structural modifications of existing plants, preparation of regular emptying of the lakes created for the plants.
- Project of S.T.E.P., "Station de Transfert d'Energie par Pompage" (Plant for Transfer of Energy by Pumping). The underlying idea of this project was to use cheap energy produced on the electricity network by nuclear power plants at night, to pump water from a lake to an upper lake, and release the stored water back through turbines at peak hours, in order to avoid having to use expensive plants, such as fuel power stations. The lower lake existed and the project consisted in building the upper lake and a subterranean plant, with the pumping rooms. He was involved in overseeing the geological studies, the technical options and the administrative procedures, such as public inquiries, public hearings, etc. I also received training to be able to act as Health and Safety inspector.
- Control of 20 kV lines for distribution of electricity.
- Representative of the local representation of the Ministry of Energy at meetings concerning urban planning documents.

From 1978 to 1982: Jean-Yves HUET was employed by the Ministry of Equipment (Department of Transport), based in CAEN, France.

In charge of Urban Planning, which involved designing local development plans in liaison with architects, government agencies and local authorities. These plans classify land into urban, industrial and natural areas, for which specific rules of construction are set up, such as kind of construction/activity allowed in each area, restrictions to construction (maximum height of buildings, architectural requirements, etc.)

Oil spills attended since 1987

Vessel name	Location	Year	Comments
FOLGOET	St Nazaire, France	1987	
AMAZZONE	Brittany, France	1988	Clean-up of pebble beaches at Treguennec
EXXON VALDEZ	Alaska, U.S.A.	1989	Advice to EXXON on clean-up of rock and pebble beaches
ARAGON	Madeira, Portugal	1990	Leader of E.U. Task Force. Technical assistance to Portuguese authorities
RIO ORINOCO	Quebec, Canada	1990	Shoreline clean-up
VISTA BELLA	St Barthelemy, Guadeloupe	1991	Shoreline clean-up aerial surveillance - Claims analysis
HAVEN	Italy, France	1991	Aerial surveillance- Advice for at sea operation- Shoreline clean-up - Claims analysis
RIVER MAAS	Falmouth, U.K.	1991	Survey – Claims analysis
BLUE SEA	Tunis, Tunisia	1992	Shoreline clean-up- Claims analysis
SEKI ROLETTE	Hamburg, Germany	1992	Aerial surveillance - Advice on response at sea
KATINA P	Maputo, Mozambique	1992	Organisation of shoreline clean-up – Analysis of clean-up claims
HAWAIIAN EXPRESS	Ulsan, Korea	1992	Shoreline clean-up - Analysis of claims for clean-up and for damage to fisheries activities
EDYTH L	Puerto Barrios, Guatemala	1992	Organise clean-up of shorelines, including mangroves
IRVING NORDIC	Quebec, Canada	1992	Claims analysis
NAGASAKI SPIRIT	Singapore and Malaysia	1992	Aerial surveillance - At sea response – Coordinating actions of Malaysian authorities and oil companies - Shoreline clean-up
AEGIAN SEA	Coruña, Spain	1992	Support to on-scene team, from office in London
BRAER	Shetland Islands, U.K.	1993	Aerial surveillance - Clean-up of shorelines - Fisheries claims

Vessel name	Location	Year	Comments
Unknown source	Portugal Mainland	1993	Shoreline clean-up - Advice to Portuguese authorities
ROBERT MAERSK	Tarragona, Spain	1993	Aerial surveillance - Shoreline clean-up - At sea response
KOREA VENUS	Inchon, Korea	1993	Fact finding - Surveys - Analysis of fisheries claims
PACIFIC DIAMOND	Inchon, Korea	1993	Clean-up of shorelines in Inchon
ASPILOS	Antwerp, Belgium	1993	Advice on clean-up of the port
NASSIA	Istambul, Turkey	1994	Aerial surveillance- At sea response – Shoreline clean-up
APPOLO SEA	Cape Town - Uruguay	1994	Advice on organisation and techniques for shoreline clean-up
SEKI	Fujairah, U.A.E.	1994	Aerial surveillance - At sea response – Shoreline clean-up (buried oil)
HAWAIIAN KING	Saldanha Bay - Uruguay	1995	Technical assessment of oil spill response operation.
Marine oil spill originating from a separator	Molongo Oil Terminal	2000	Assistance to Cabinda Gulf Oil Company / Chevron during the oil spill response operations.
Congo River oil spill	Undetermined origin. Oil surfacing in the Congo river and oiling shorelines in Cabinda	2000	Assistance to the oil companies
TREASURE	Cape Town – Uruguay`	2000	Assistance to Uruguayn authorities for the organization of the shoreline clean-up operations
IKAN TANDA	Cape Town – Uruguay	2001	Assistance in the shoreline cleanup operation following the grounding of a cargo ship
RATNA SHALINI	Mombassa - KENYA	2005	Advice to P&I Club
UMFOLOZI	Walvis Bay - NAMIBIA	2005	Surveys of the area affected by the incident, advice to the P&I Club and
MIGHTY SERVANT 3	Luanda - ANGOLA	2006	Assessment of the alleged oil spill after the sinking of the MIGHTY SERVANT off the entrance to the port of Luanda/

Vessel name	Location	Year	Comments
LEBANON oil spill	Beyrouth, Jiyeh, Tripoli	2006	Testing of best suited techniques for cleanup of the shoreline Cleanup of 20 kms of coastline in the Tripoli area
VICUNA oil spill	Paranagua, Rio de Janeiro - Brazil	2006 and 2007	Assessment of the response to the oil spill incident. Assistance to shipowner as technical expert for the legal proceedings.
Total Angola DALIA offloading buoy	Offshore and Luanda - Angola	2008	Assistance to the Total Emergency management team
Total EP Angola	Offshore Angola – Block 32	2009	Response to the spill from Colorau 2 well in Block 32.
Total EP Angola	Offshore Angola – Block 17	2012	Response to the oil spill from ROSA field – Aerial surveillance, CMU, relations with authorities.
Total EP Angola	Offshore Angola – Block 17	2009-2014	Response to various oil spills.