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### Overview

- ▶ Tiered Preparedness & Response (TPR)
- ➤ Equipment Mobilisation Considerations
- ▶ Aircraft Charter and Permits
- ▶ Aerial Dispersant Application Aircraft





# TPR and Equipment Mobilisation Considerations

### Tiered Response

- Introduction of new Tiered Preparedness and Response Model
  - Realistic consideration of logistic requirement for each of the capabilities
  - Transport of some equipment are more logistically challenging than the other

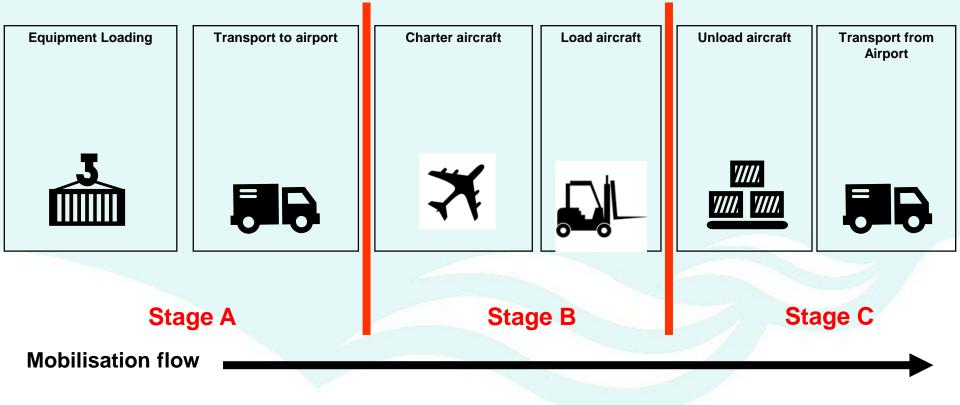






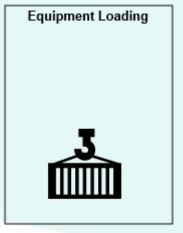


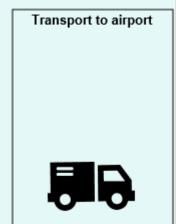
### **Equipment Mobilisation Flow Chart**





# Stage A



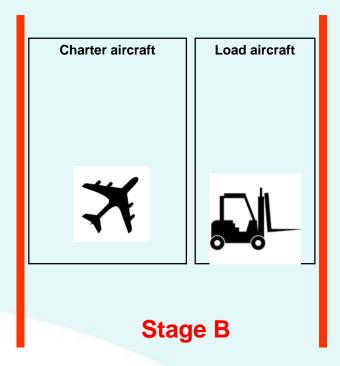


Stage A

- Type of equipment to be Exported
- ➤ Mode of transport sea or air
- Equipment packaging
- ▶ Transport to port or airport
- Export permit
- Loading to vessel or aircraft



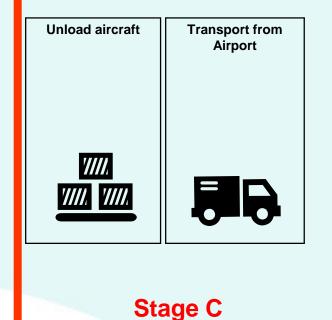
## Stage B



- Vessel available / aircraft charter
- Documents airway bill, invoice, packing list
- ▶ Charter contract



# Stage C



- ▶ Unloading from vessel or aircraft – logistic capability
- Custom clearance temporary import permit
- ▶ Transport to destination
- Identification of staging area
  / security at staging area

### Shared Responsibility – OSRL and Members

- ➤ Transfer of responsibility at airport of departure
- OSRL provide logistics support for Stage A and Stage B
  - OSRL works with its dedicated freight forwarder and aircraft charter broker
- ▶ Members to
  - Assist in customs clearance
  - Identify and arrange local logistics



### Shared Responsibility – OSRL and Members



#### Responsibility

INCIDENT OWNER

#### **Equipment Loading**

Equipment to be mobilised will be agreed between OSRL and the Incident Owner and will be loaded for transport by OSRL



#### Transport to airport

Insurance and transport provided by OSRL but recovered from mobilising party at cost



#### Charter aircraft

If OSRL arrange flight costs must be approved by incident owner in writing prior to charter booking



#### Load aircraft

Including export Customs clearance



#### **Unload aircraft**

Including clearance of equipment through Customs



#### Transport from Airport

Transport and additional security as necessary for transfer from airport to Incident



#### Transfer of responsibility

Incident owner takes responsibility for equipment once it reaches the departure airport. Mobilising party must insure equipment from this point.

#### **OSRL** arrange aircraft charter

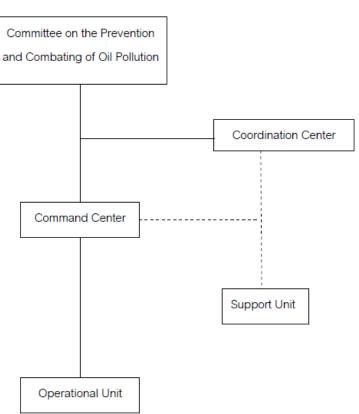
Aircraft Charter and loading of the aircraft may be
 arranged by OSRL with written agreement to the
 OSRL Duty Manager from the incident owner. Any
 costs incurred during this will be recharged to the
 mobilising party at cost.





### **Custom Clearance**

# 3.1 Organization Chart



### National Oil Spill Contingency Plan

- Marine Department assumes the role of Coordination Center
- Custom Department as part of Support Unit



### **Custom Clearance**

- ▶ Role of The Customs Department
  - Coordinate and develop measures or special procedure or orders to facilitate the temporary importation of oil spill clean-up equipment from abroad
  - Suggestion: predevelopment of procedures for this kind of temporary importation





### **Aircraft Charter and Permits**

### **Aircraft Charter**

- ➤ Mobilisation of Tier 3 equipment
  - Large scale and urgent
  - Solution: Chartering aircraft of opportunity
  - Aircraft with large payload is preferred







# Airports and Capability

Airports	Logistic Support for Aircraft Type	Flight Time from Singapore
BKK (Suvarnabhumi)	Able to support B777F/B747F/AN124	2 hours
UTP (U-Tapao)	Able to support B777F/B747F/AN124	1 hour 50 mins
HKT (Phuket)	No main deck loader Project aircraft types like IL76 or AN124 (subject to airport approval)	1 hour 30 mins
HDY (Hat Yai)	No main deck loader Project aircraft types like IL76 or AN124 (subject to airport approval)	1 hour



# Flight Permit

- ➤ For Thailand, typically takes about 3 working days
- ➤ With letter of emergency, permit can be obtained in 1-2 working days
- ▶ Letter of emergency to be written by mobilising party to Department of Aviation (Civil Aviation Authority of Thailand, CAAT)



## Letter of Emergency Template

Company Letter Head

Date

Name and address of Department of Aviation

Subject: 'Company' Charter Flight from Singapore to Bangkok



### Letter of Emergency

Dear 'Name of Officer'

Kindly accept this letter as confirmation that 'Company' has chartered and IL-76 aircraft, operated by Chapman, to transport urgently oil spill response equipment from Singapore

to Bangkok

This charter flight is on behalf of 'Company'

OPERATOR: 'Name of Airline'

TYPE OF A/C: IL76TD-90VD

REGISTRATION No.: RA-76950

FLT NBR: VDA6390

PURPOSE OF FLIGHT: Urgent delivery of oil spill response equipment

ROUTE: From Singapore to Bangkok

'Company' urgently needs your assistance in granting the operator the necessary

permits to perform the flight.

Sincerely, Signature Name Title





### **Aerial Dispersant Application Aircraft**

# Dispersant Application Aircraft

- Specialised aircraft with fitted dispersant delivery system
- Provided by OSRL for the region
  - Hercules C-130A
- Additional aircraft
  - Boeing 727 located in Doncaster, UK
  - Requires at least 16 hours flight time to reach this region
  - Requires additional approval



## Dispersant Aircraft Specifications

- Senai, Malaysia
- 6hrs call to wheels-up
  - Dispersant spray application and monitoring system (SATLOCK)

    GPS Positioning (Spidertrack)
  - Rapid Installation Dispersant Spray System (RIDDS)
    - ➤ 13m³ capacity



C130 Hercules



- Doncaster, UK
- 4hrs call to wheels-up
- Live tracking
- Dispersant System
  - ➤ 15m³ capacity







# Mobilising Dispersant Aircraft



#### Responsibility

INCIDENT OWNER

#### **Aircraft Choice**

OSRL will choose aircraft based on flight times, ease of overflight clearances and available airports in country



#### **Aircraft Transit**

OSRL's aviation contractors will file flight plans and arrange overflight clearances



#### **Landing Rights**

OSRL's aviation contractor will normally arrange landing rights but Incident Owners aviation team may be required to assist



#### **Permission to Spray**

OSRL will assist the Incident Owner to obtain low level flying and dispersant application permissions



#### **Accommodation & Transport**

Incident owner to provide aircrew with secure accommodation and transport to/from the airport



#### **Immigration**

Incident owner is responsible for assistance with Lol. visa, TWP for aircrew after initial 72hrs in country



#### Transfer of responsibility

Incident owner to support aircraft operations / aircrew in country

**Mobilisation flow** 



### **Explanations**

- Application for overflight clearance and Landing Permit will be done by operator (IAR)
  - Allows Hercules to land in country for 72 hours
- ➤ Mobilising party to:
  - Letter of Approval requesting for aerial dispersant spray, aerial surveillance and low level flying
  - Permit to spray with total volume of spray permitted (Pollution Control Department)
  - Report to PCD after dispersant application operation
  - Immigration: If the aircraft exceed 72 hours, assist to apply for visa/temporary work permit for air crew.



### Letter of Approval Template

#### [Client company letterhead]

To

(Addressed to the Civil Aviation Authority/government entities/department e.g. military, maritime, environmental, humanitarian agencies

cc: OSRL and IAR/Aberdair)

This letter serves to highlight that Oil spill response limited (OSRL) and her contractors, International Air Response (IAR) and/or Aberdair have been engaged by [client company name] to perform oil spill response operations in response to the [name of incident] in [location].

Your approval is sought to permit the <u>above named</u> companies to undertake the following oil spill response activities using Hercules L382G (N119TG) and/or Bandeirante EMB-110P1 (9G-FWD) aircraft:

- Aerial surveillance,
- 2. Low level flight (75 100 ft above water surface) and
- 3. Dispersant application on the area of operations



### Letter of Approval Template

The area of operation has been demarcated as shown. As such, we may require your assistance in establishing the necessary restricted air space and the exclusion zone around the incident site.

#### [Provide print screen of search box with coordinates]

The dispersant of choice to be used is <u>[name of approved dispersant]</u>. The use of dispersant is to rapidly reduce oil concentration in the sea to below harmful levels. The dispersant approval from <u>[name of country]</u> authority and its material safety datasheet and can be found attached.

We seek your kind understanding in giving the required approval and clearance to our aviation provider and their crew. [Client company name] will be more than willing to provide any additional information should you require.

Thank you.

Yours sincerely,

(Signed by client/responsible party)



# IAR Flight Times

Airports	Dispersant Quantity (L)	Flight Time (h)
BKK (Suvarnabhumi)	12300	3
UTP (U-Tapao)	12300	3.7
HKT (Phuket)	12300	2
HDY (Hat Yai)	12300	1.5
CNX (Chiang Mai)	10440	4.1







## Staying in touch

### www.oilspillresponse.com

#### Subsea Well Intervention Service

www.oilspillresponse.com/subsea subseaservices@oilspillresponse.com

#### Training courses

www.oilspillresponse.com/training training\_uk@oilspillresponse.com training\_sg@oilspillresponse.com

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