

# PLANNING & EXECUTING AN INTERNATIONAL TRANSPORT OF CATEGORY I NUCLEAR MATERIALS – THE UK DELIVERING SPECIALIST NUCLEAR SERVICES WITH PRIDE

Bob Officer

International Nuclear Services

# Introduction

- INS – who are we?
- Cat I NM Transport Key Stakeholders
- Global reach - NSS deliverables
- Record of Discussion – ROD
- Rules of the Game – ROG
- Threat/DBT/CNC
- Operational Capability/EP&R
- Competent Authority Approval – Transport Security Plan (TptSP)



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NUCLEAR SERVICES

“Over 40 Years experience  
of delivering safe and  
secure transports...”



PROUD OF OUR  
BRITISH  
HERITAGE



Department for  
Business, Energy  
& Industrial Strategy

**UK Government  
Department:**  
Sets UK policy



**Government Agency:**  
Responsible for clean-up of  
the UK's nuclear legacy



**NDA subsidiary:**  
Delivers specialist nuclear  
services including  
transportation



**PNTL**

**INS subsidiary:**  
Shipper of nuclear cargoes  
(68.75% INS | 18.75% Japanese  
Utilities | 12.5% AREVA)

International Nuclear Services is a wholly-owned subsidiary of the UK Nuclear Decommissioning Authority and has over 40 years experience of irradiated fuel management and nuclear material transportation.



- +5 million nautical miles covered
  - +200 shipments completed
  - 18x HLW Shipments to Japan
  - 5x MOX Shipments to Japan
- 5x Shipments in support of GTRI / M3
  - **World's leading shipper of SNM**





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# NUCLEAR SECURITY SUMMIT

WASHINGTON 2011



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# Key Stakeholders



Department for  
Business, Energy  
& Industrial Strategy



Foreign &  
Commonwealth  
Office



Office for  
Nuclear Regulation



Nuclear  
Decommissioning  
Authority



Ministry  
of Defence



Maritime &  
Coastguard  
Agency

# Record of Discussion (ROD)



6

4

2

1M

8

6

4

2

# Rules of the Game (ROG)

# IAEA Strategic Table-top Exercise

**Coastal States  
TTX  
IAEA Vienna  
28 July 2017**



# Operational Capability

# Regulatory Oversight

# Threat - DBT







“A unique & experienced partnership, making the world a safer place”



# Operational Capability – RN FOST



# Security Plans, EP&R...

# EP&R - Command & Control

## Dedicated Control Centres

1x Tactical Operations Centre - Risley, UK  
(Primary)

1x Strategic Command Centre - Risley, UK  
(Primary)

1x Barrow, UK (Secondary)





# EP&R – Key Stakeholders

## Potential stakeholders supporting and/or coordinating an Emergency Response involving INS

Office for Nuclear Regulation (ONR)	Maritime Rescue Co-ordination Centres (MRCC)
Business , Energy & Industrial Strategy (BEIS)	PR company (e.g. Acumen)
Foreign & Commonwealth Office (FCO)	Strategic Coordination Group (Multi-agency Gold)
Consignor/Consignee	Tactical Coordination Group (Multi-agency Silver)
Nuclear Decommissioning Authority (NDA)	Coastal & Shipping States
SERCO (e.g. Marine Emergency Co-ordinator)	IAEA
Genden Nuclear Engineering Services Company (GNESC)	Ardent - Salvage
Civil Nuclear Constabulary (CNC)	Maritime Coastguard Agency (MCA)
PNTL (Ship's Master)	Inchcape International - Ship's agent
Air Transport Company - Hunt & Palmer	International Maritime Organisation - IMO



# Emergency Response Resources

## Additional Equipment Locations:

UK - Risley, Sellafield, and Barrow



Japan -Tsuruga and Tokai



## ER equipment on Vessels

- MV Oceanic Pintail
- MV Pacific Egret
- MV Pacific Heron
- MV Pacific Grebe







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# Questions?



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