

## Executive Summary

The transport of radioactive material has been undertaken safely throughout Great Britain. Package design based on International Atomic Energy Agency criteria have proved robust when subject to accidents.

The Industry is proud of this standard and wishes to maintain this level of performance.

**RADSAFE** has evolved from a number of existing plans:

- Nuclear Industries Road/Rail Emergency Plan
- Irradiated Fuel Transport Flask Emergency Plan
- Scottish Nuclear Limited Irradiated Fuel Transport Flask Emergency Plan

The intention has been to build on the good features of each of these plans and to ensure there is no confusion about which plan is activated by providing assistance in radioactive materials transport emergencies through...



**RADSAFE** is based on the Requirements of the Emergency Services as our customer and draws on the *principles* of the national Chemsafe plan.

The structure of **RADSAFE** is such that, if required, the NAIR (National Arrangements for Incidents involving Radiation) scheme could at a later date be built into **RADSAFE** eliminating any confusion about which plan to activate.

*The key principles of **RADSAFE** are:*

- Early provision of general advice to the emergency services
- Guaranteed response
- Provision of a Framework for Media Support
- Ownership of “clean up” actions

**This will require continued liaison with emergency services and local authorities to ensure an acceptable level of awareness of RADSAFE.**

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## 1.0 Scope of RADS SAFE

### RADS SAFE:

- Covers Great Britain i.e. England, Scotland & Wales
- Is restricted to those signatories of the **RADS SAFE** contract
- Is restricted to events involving the transport of radioactive material
- Excludes major MOD nuclear movements, such as nuclear weapons, because health physics support is already present.

There are two aspects to **RADS SAFE**:

- Specifying the response from **RADS SAFE** responders
- Establishing standards for **RADS SAFE** responders

## 2.0 RADS SAFE Response

The purpose of **RADS SAFE** is to:

“Provide expert assistance to the emergency services following an incident involving the transport of radioactive material”

- by...
- Providing early information to the emergency services at the scene of the event
  - Responding to the event with technical support within a target time
  - Establishing clear responsibility for “clean up” of the event
  - Establishing 24 hour national notification telephone number
  - Establishing communication route for expert advice, technical support
  - Establishing a framework for media support
  - Providing consignment owner site support

## 2.1 RADS SAFE Standards

**RADS SAFE** sets out:

- Standards of
  - *Response*
  - *Personnel*
  - *Equipment*
  - *Performance*
- Notification route
- Reporting procedures

## 3.0 The **RADSAFE** Levels of Response

### Summary

Level 1	Notification/communication service, provision of generic radiological protection advice provided by Force Communications Centre (FCC)*
Level 2	Provision of radiological advice/support at the incident scene by level 2 responding site
Level 3	Consignment Owner response and “Clean Up”

**Levels 1 & 2 are deployed together**

*All member organisations provide response to levels 1,2 and 3*

\*FCC = United Kingdom Atomic Energy Constabulary Force Communications Centre

# Levels of Response

## Provision of Information:

1	Emergency services require provision of information when approaching an incident
2	Generic advice provided by Force Communications Centre (10 minutes) (Appendix 3)
3	Radiological advice provided by level 2 responder (30 minutes)
4	Receive product information from owner <ul style="list-style-type: none"> <li>■ Risk to personnel</li> <li>■ Public dangers</li> <li>■ Mitigating advice/countermeasures</li> <li>■ Need for specialist support</li> <li>■ Equipment requirements</li> </ul>
5	One national contact number to Force Communications Centre (0800 - 834153)
6	Emergency Service contact to Force Communications Centre
7	24 hour availability of member companies expertise
8	Clean up undertaken by owner
9	Communications/liaison established between consignment owner, level 2 responder and emergency services
10	Media response provided by consignment owner

## FCC Activities: (see Appendix 2 for Proforma)

11	Receive the emergency notification
12	Identify the location of the event
13	Recognise the site code (see Appendix 6)
14	Determine whether emergency services have been called
15	Offer to send generic advice to emergency services (Appendix 3)
16	Contact owner and provide information on how to contact emergency services
17	Provide owner with event specific details
18	Contact local participating organisation for response
19	Establish communications between owner, Level 2 Responding Site and emergency services

## Level 2 Responding site:

20	Receive notification/briefing by Force Communications Centre (see Appendix 7)
21	Establish communication with owner
22	Establish communication with the emergency services
23	Provide support to the emergency services
24	Brief owner on situation

## Owner Activities:

25	Receive notification/briefing from Force Communications Centre (see Appendix 7)
26	Contact level 2 responder and provide product information support
27	Respond to scene of event as soon as possible
28	Undertake "clean up" activities
29	Establish communications with agencies who need to be consulted as part of the "clean up" process
30	Establish media response to event (liaison with level 2 responder essential)

Response level 1

Response level 2

Response level 3



## 4.0 Standards

- 1 Every member organisation to be accessible at all times on a specified emergency contact number
- 2 Target time for provision of radiological advice over the telephone by level 2 responder is 30 minutes from receipt of call at the FCC
- 3 Responding organisation technical representative to have mobile telephone and at least basic instrumentation (see Appendix 1)
- 4 Technical representative to be a **Suitably Qualified and Experienced Person**
- 5 Technical representative at scene to be clearly identified with high visibility tabard marked “**RADSAFE**”
- 6 All **RADSAFE** organisations to participate in emergency exercises regularly
- 7 All vehicles or containers used for transporting radioactive material under this scheme must have a **RADSAFE** placard (see Appendix 4)
- 8 Target time for provision of generic advice to emergency services 10 minutes

## 5.0 Media

The police in charge at the scene will normally coordinate the media response, taking input from the Technical Representatives at the scene.

The consignment owner will provide media response to company issues.



## Appendix 1

### *Initial Actions at the Event Scene by Level 2 Responder*

On arrival at the scene of the incident, the level 2 Responder will:-

- (i) Advise the level 2 Responding site of arrival as soon as practicable
- (ii) Notify the emergency services officer who is leading the emergency response (usually fire officer if a fire/accident has occurred, police officer if no fire has occurred)
- (iii) Take part in multi-agency meetings providing technical (radiological) advice/support
- (iv) Arrange for controlled access and egress from the vicinity of event. A cordon may have been established by emergency services (approx. 45m)
- (v) Consider need to increase/reduce size of cordon
- (vi) Measure the radiation dose rates in the vicinity of the package(s), examine the package(s) for leakage and check for local contamination. Air sample surveys, particularly in the area downwind of the package, may be necessary to assist in establishing whether or not an inhalation hazard exists.
- (vii) Limit the spread of contamination and institute decontamination measures, including the monitoring of other personnel involved in the incident, as required
- (viii) Give frequent situation reports to the level 2 responding site, consignment owner, and to the officers in charge of the Emergency Services at the scene
- (ix) Liaise with additional health physics support teams who may be called out

**Note:**

*For a protracted incident:*

*Shift support from other RADSAFE participating organisations may need to be considered. Communications may be established through a police control centre*

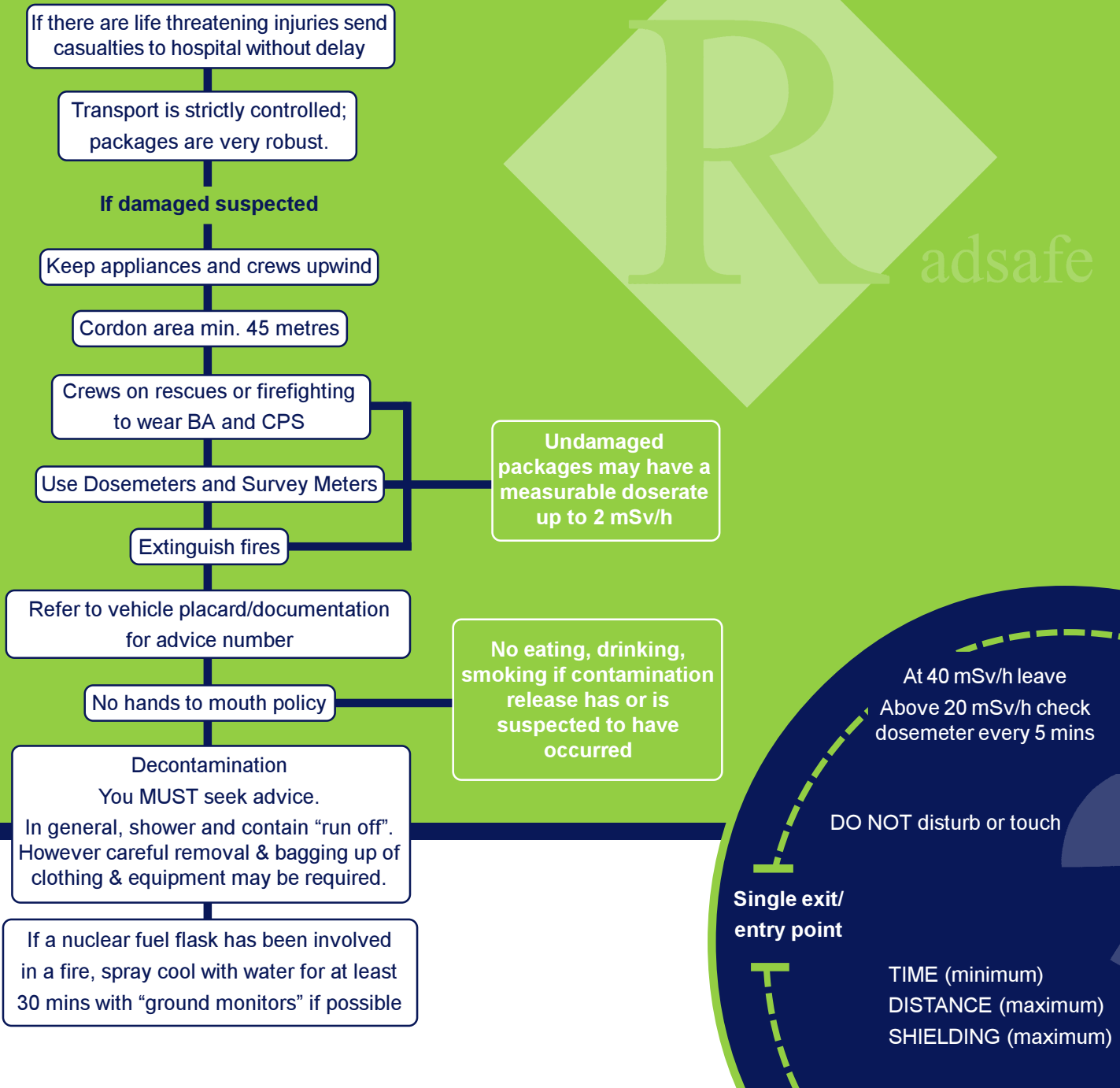
## Appendix 2

### *RADSAFE Communications Form (Receipt of Call)*

*(Refer to enclosed sheet at back of booklet)*

## Appendix 3

Generic Advice Provided by FCC to Emergency Services Responding to a Radioactive Materials Transport Event



## Appendix 4

### Schematic of RADS SAFE Placard

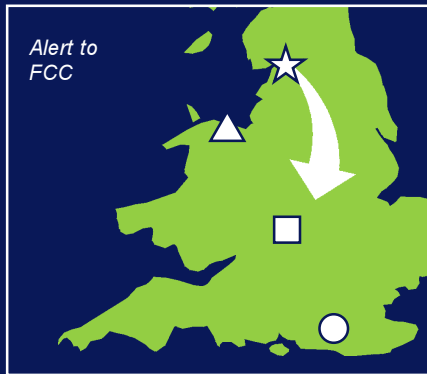


# Appendix 5

## Schematic of response

adsafe

Level 1 - Provision of Information



Level 1 - Provision of Information



Level 1 - Provision of Information



FCC



Accident Site



Owner



Level 2 Responder

*Level 1 - Provision of Information*

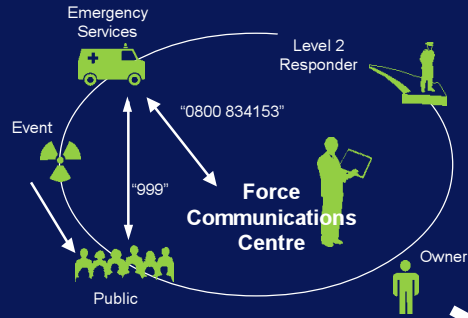
*Level 2 - Respondent at scene to give advice*

*Level 3 - Provision of clean up and remediation by Owner*



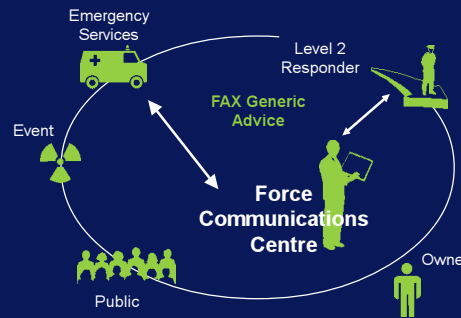
# Appendix 7 Notification Chain

Communications - Initial Contact (1)



**And/Or**

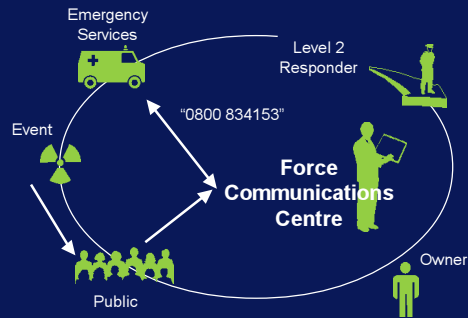
Communications - Establish Response



Communications - Establish Support for Response



Communications - Initial Contact (2)



Appendix **8**  
RADSAFE logo



Tel: **0800 834 153**