



IN AN INCIDENT CALL
0800 834 153
/ QUOTE SITE CODE

WELCOME TO RADSAFE



DELIVERING RADIATION SAFETY
FOR ROAD & RAIL INCIDENTS

 radsafe.org.uk



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PRINCIPLES



KNOWLEDGE
ASSURANCE
& GUIDANCE

24/7
AVAILABILITY
& COVERAGE

COOPERATION
& TEAMWORK

PUBLIC
PROTECTION

RADIATION
DEFENCE

MUTUAL AID

EMERGENCY
RESPONSE

SUPPORT &
COORDINATION

SPECIALIST
ADVICE





I. OVERVIEW

The aim of Radsafe is to be a mutual-aid association whose Members collaborate, sharing knowledge and experience, to define and manage initial emergency response procedures for incidents occurring in Great Britain during transportation of Members' radiological materials.



■ RADSAFE FACILITATES:

- ✓ Sharing and development of knowledge amongst its Members to enhance the initial response to transport incidents
- ✓ Coordination of member-led initial responses to radiological transport incidents involving Members' materials
- ✓ Provision of advice from Members to Emergency Services

■ RADSAFE PROVIDES:

- ✓ Training and advice to Members and their responders on initial response requirements for transport incidents
- ✓ Awareness Training to emergency services on Members initial response to transport incidents
- ✓ Guidelines and protocols for incident response for its Members

■ RADSAFE INFORMS:

- ✓ Policy Makers, Regulators and Stakeholders (e.g. Emergency Services) by channelling the collective knowledge and experience of its Members.



2. DEVELOPMENT

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.

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

■ THE KEY PRINCIPLES OF RADSAFE ARE:

- ✓ Early provision of general advice to the emergency services
- ✓ Guaranteed response
- ✓ Consignor support to police and media response
- ✓ Consignor/Owner has legal responsibility for ensuring effective emergency response and remediation/clean up of the area

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



3. LEVELS OF RESPONSE



■ LEVEL 1

Notification/communication service, provision of generic radiological protection advice provided by National Chemical Emergency Centre (NCEC)

■ LEVEL 2

Provision of radiological advice/support at the incident scene by level 2 responding site



■ LEVEL 3

Consignment Owner response and "Clean Up" (not a part of Radsafe response but responsibility of consignment owner.)



■ LEVELS 1 & 2 ARE DEPLOYED TOGETHER

Most member organisations provide response to levels 1, 2 and 3



4. SCOPE



■ RADSAFE:

- ✓ Covers Great Britain i.e. England, Scotland & Wales
- ✓ Is restricted to those signatories of the Radsafe 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 KEY FEATURES OF RADSAFE:

- ✓ Specifying the response from Radsafe responders
- ✓ Establishing standards for Radsafe responders



5. PURPOSE

THE PURPOSE OF RADSAFE IS TO:

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

■ WE DO THIS BY:

- ✓ Establishing 24 hour national notification telephone number
- ✓ Providing early information to the emergency services at the scene of the event
- ✓ Responding to the event with technical support to make the area safe using a best endeavours response time
- ✓ Establishing communication route for expert advice, technical support
- ✓ Consignor support to Police media response
- ✓ Providing consignment owner site support
- ✓ Consignor ownership of clean up actions

6. STANDARDS



■ RADSAFE IDENTIFIES:

- ✓ Standards of:
 - Response
 - Personnel
 - Equipment
 - Performance
- ✓ Notification route
- ✓ Reporting procedures

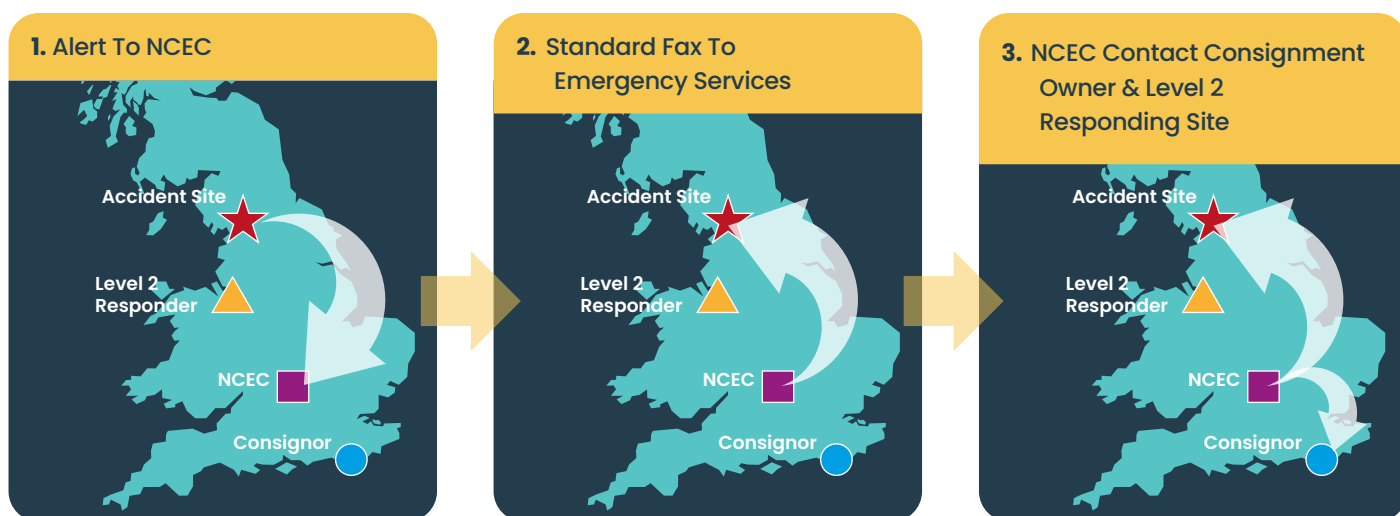


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APPENDIX I.

SCHEMATIC OF RESPONSE

■ LEVEL 1: PROVISION OF INFORMATION:



■ LEVEL 2: RESPONDER AT SCENE TO GIVE RADIOLOGICAL ADVICE



■ LEVEL 3: PROVISION OF CLEAN UP BY CONSIGNING ORGANISATION



APPENDIX 2.

INITIAL ACTIONS

■ ON ARRIVAL AT THE SCENE OF THE INCIDENT, THE LEVEL 2 RESPONDER WILL:

- ✓ Advise the level 2 responding site of arrival as soon as practicable
- ✓ 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)
- ✓ Take part in multi-agency meetings providing technical (radiological) advice/support
- ✓ Arrange for controlled access and egress from the vicinity of event. A cordon may have been established by emergency services (approx. 45m)
- ✓ Consider need to increase/reduce size of cordon
- ✓ 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
- ✓ Limit the spread of contamination and make the area safe, including monitoring of other personnel involved in the incident, as required
- ✓ 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
- ✓ Liaise with additional health physics support teams who may be called out



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 3.

RADSAFE STANDARDS

- ✓ Every member organisation to be accessible at all times on a specified emergency contact number
- ✓ Responding organisation technical representative to have mobile telephone and at least basic instrumentation
- ✓ Technical representative to be a Suitably Qualified and Experienced Person
- ✓ Technical representative at scene to be clearly identified with high visibility tabard marked "Responder"
- ✓ All Radsafe organisations to participate in emergency exercises regularly
- ✓ All vehicles or containers used for transporting radioactive material under this scheme must have a Radsafe placard (see Appendix 6)

APPENDIX 4.

MEDIA RESPONSE

- ✓ The police 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 5.

GENERAL ADVICE

DO

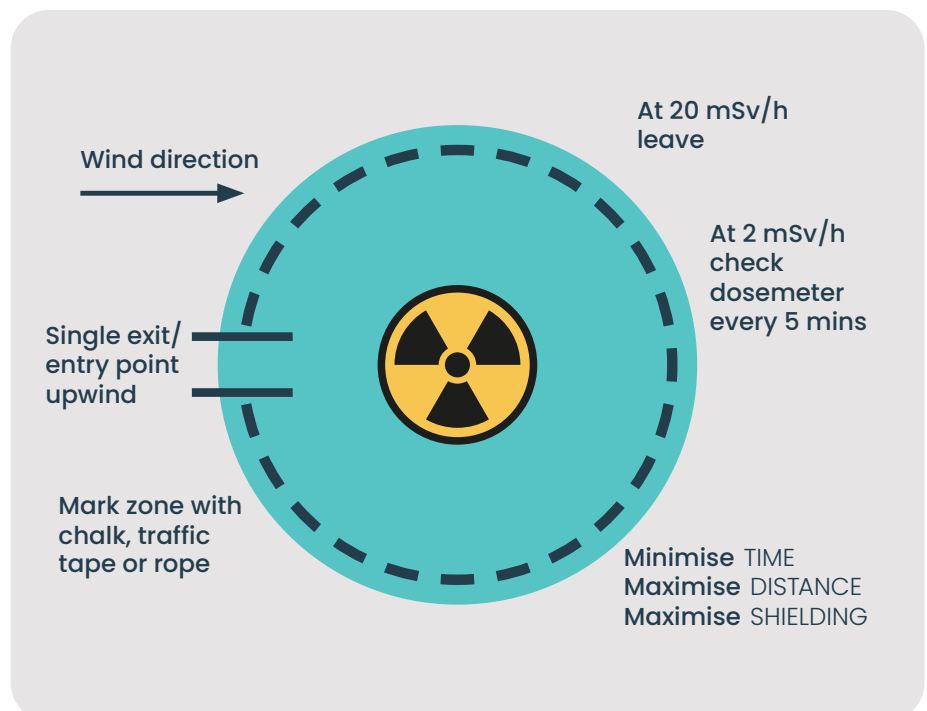
- ✓ Send casualties to hospital without delay if there are life threatening injuries
- ✓ Keep appliances upwind
- ✓ Set cordon area at 45m
- ✓ Wear BA or CPS if on rescue or fire fighting duty
- ✓ Use dosimeters and survey meters
- ✓ Extinguish fires
- ✓ Seek advice on decontamination (In general, shower and contain "run off")
- ✓ Bag up clothing and equipment
- ✓ Spray cool nuclear fuel flask for at least 30min if flask involved in a fire using ground monitors if possible

DON'T

- X Put hands to mouth
- X Eat, drink or smoke if radiation release has or is suspected to have occurred

REMEMBER

- Transport is strictly controlled
- Appropriate packages are used for transport risks
- Undamaged packages may have a measurable dose rate up to 2 mSv/hr (refer to documentation)
- Refer to vehicle placard or documentation for advice number





APPENDIX 6.

SCHEMATIC OF RADSAFE PLACARD DESIGN



APPENDIX 7.

LIST OF MEMBER SITES AND CODE LETTERS

ORGANISATION	SITE	IDENTIFICATION CODE	CONSIGNOR / RESPONDER
GE Healthcare	Amersham	A3	C/R
Sellafield Ltd	Sellafield	B3	C/R
Nuclear Restoration Services (NRS)	Berkeley	E1	C
	Bradwell	E2	C
	Dungeness A	E3	C
	Hinkley Point A	E4	C
	Sizewell A	E5	C
	Trawsfynydd	E6	C
	Wylfa	E7	C/R
	Oldbury	E8	C/R
	Hunterston A	E9	C
	Hunterston B	S2	C/R
	Chapelcross	B2	C
	Harwell	U3	C/R
	Winfrith	U6	C/R
NRS Dounreay	Dounreay	U2	C/R
RPS/MOD Ministry of Defence	Aldermaston	M1	C/R
	Alverstoke	M2	R
	Barrow-in-Furness	M4	C
	Burghfield	M3	C
	Devonport	M5	C/R
	Faslane	M6	C/R
	Other MOD Sites	M9	C



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KEY

✓ *C/R = Consignor/ Responder Site

Site may be called on for Radsafe Level 2 or 3 response

✓ C = Consignor-only Site

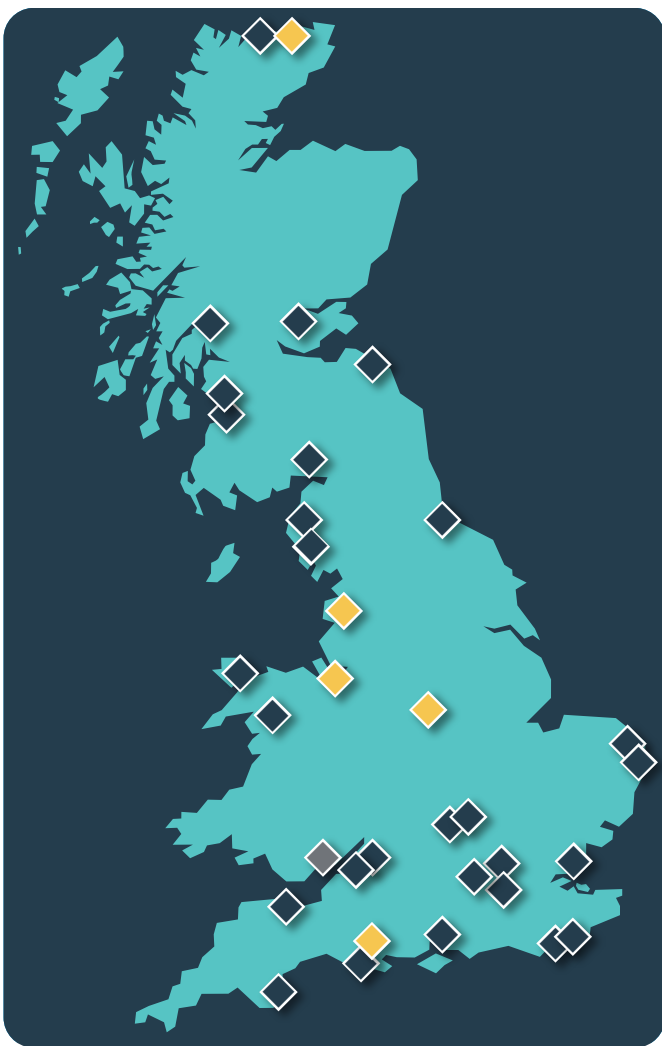
Site may be called on for Radsafe Level 3 response only (Consignment owner clean-up)

ORGANISATION	SITE	IDENTIFICATION CODE	CONSIGNOR / RESPONDER
EDF Energy - Generation	Dungeness B	N1	C/R
	Hartlepool	N2	C/R
	Heysham 1	N3	C/R
	Heysham 2	N4	C/R
	Hinkley Point B	N5	C/R
	Sizewell B	N6	C/R
	Torness	S3	C/R
	CESC HP	N9	C
Rolls Royce	Derby	R1	C/R
	Vulcan	R2	C
United Kingdom Atomic Energy Authority	UKAE	U1	C/R
Eckert & Ziegler Environmental Services Ltd	Eckert & Ziegler	X1	C/R
Nuclear Waste Services (NWS)	LLWR	L1	C
Tradebe Inutec	Tradebe Winfrith	T1	C
Urenco	Urenco, Capenhurst	C1	C/R
Westinghouse	Springfields	B4	C/R
UniTech	UniTech	Z1	C
Science & Technology Facilities Council	STFC Harwell	D1	C/R
	STFC Daresbury	D2	C



APPENDIX 8.

SCHEMATIC OF RADSAFE PARTICIPANTS



- ◆ Radsafe Members
- ◆ Radsafe Affiliates
- ◆ Other Radsafe Users

- ◆ Eckert & Ziegler
- ◆ NRS
- ◆ GE Healthcare
- ◆ AWE / Ministry of Defence
- ◆ Westinghouse
- ◆ Sellafield Ltd
- ◆ EDF
- ◆ Rolls Royce
- ◆ NRS Dounreay
- ◆ Tradebe Inutec
- ◆ UKAEA
- ◆ Urenco
- ◆ NWS
- ◆ STFC
- ◆ Unitec



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THANK YOU

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