



Reactor Emergency Plan

Emergency Preparedness, Resilience & Response

Version 2.0 July 2018 PUBLIC - PORTSMOUTH

https://collaborate.resilience.gov.uk/RDService/home/34468/Radiation-Emergency-Preparedness-and-Public-Information-Regulations-2001

Foreword

The Reactor Emergency Plan describes the off-site management structures and procedures used by responding agencies in the event of a reactor emergency on board a nuclear powered vessel in Portsmouth Naval Base and Southampton Eastern Docks. The plan complements the operator's on-site emergency plans, PORTNUSAFE and SOTNUSAFE, produced by the MOD.

The plan is prepared to comply with the requirements of the Radiation (Emergency Preparedness and Public Information Regulations (REPPIR) (2001). It replaces previous versions of the PORTSAFE and SOTONSAFE plans which should be destroyed.

The Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team produce the plan on behalf of the local responding agencies. An abbreviated public version of the plan is available on the councils' websites.

Document Control

Version number	Comments	Date	Signature
2.0	Updates to the plan following Exercise Foxwater 18	July 2018	Caroline Calvert-Lee

Glossary

Term or abbreviation	Explanation	
ABP	Associated British Ports	
ACMZ	Automatic Countermeasures Zone	
Acute Trust	NHS service providers, ambulance, hospitals and mental health	
Bronze	Single agency operational level of management of an incident	
Cat 1 responder	Category 1 responder	
	Those organisations at the core of the response to most	
	incidents (emergency services, local authorities, Environment	
	Agency, local health organisation)	
Cat 2 responder	Category 2 responder	
	Co-operating organisations involved in the response to an	
	incident (Office for Nuclear Regulation , transport and utility	
	companies)	
CBRN	Chemical, Biological, Radiological and Nuclear	
CCA	Civil Contingencies Act 2004	
	Statutory framework for the delivery of civil protection	
CCDC	Consultant in Communicable Disease Control	
CCG	Clinical Commissioning Group	
	Responsible for the commissioning and funding of hospital and	
	ambulance services	
	Co-commissioning of some primary care services such as GPs	
COBR	Cabinet Office Briefing Rooms- UK Government's dedicated crisis	
	management facilities, which are activated in the event of	
	an emergency requiring support and co-ordination at the national	
	strategic level	
COMAH	Control of Major Accident Hazards	
	Legislation with reference to hazardous industrial sites	

COP	Common Operating Picture		
COP	Common Operating Picture		
	The multi-agency document used to share situational awareness		
	and actions		
CRIP	Common Recognised Information Picture – this is a single,		
	authoritative strategic overview of an emergency or crisis that is		
	developed within COBR according to a standard template and is		
	intended for briefing and decision-support purposes.		
	Multi-agency Sitrep information from SCGs may be used to inform		
	the CRIP, and SCGs may receive the CRIP from COBR where it is		
	relevant.		
DEFRA	Department for Environment, Food and Rural Affairs		
DEPZ	Detailed Emergency Planning Zone		
DNSR	Defence Nuclear Safety Regulator		
DSTL	Defence Science and Technology Laboratory		
DPH	Director of Public Health		
EA	Environment Agency		
EEPZ	Extended Emergency Planning Zone		
EPRR	Emergency Preparedness, Resilience and Response		
ERLs	Emergency Reference Levels		
	These are the dose criteria for the implementation of		
	emergency countermeasures in an emergency situation. They		
	are specified in terms of the dose to an individual, which would		
	be averted by taking the relevant countermeasure		
FCP	Forward Control Point		
FSA	Food Standards Agency		
Gold	Single agency strategic level of management of an incident		
HFRS	Hampshire Fire & Rescue Service		
HSSO	Health services strategic officer		
HSTO	Health services tactical officer		
Health visitor	Registered nurse with training in the assessment of health needs of		
	families, especially pre-school children		
HCHC	Hampshire Community Health Care		

HIOW	Hampshire and Isle of Wight
	Geographical description based on police force area
HSE	Health and Safety Executive; Office for Nuclear Regulation
NHS	National Health Service
Intermediate	Provides support to enable patients to be cared for in their homes
Care Team	
JESIP	Joint Emergency Services Interoperability Programme
LRF	Local Resilience Forum
	Principal mechanism for multi-agency co-operation between
	Category 1 responders
MACA	Military Aid to the Civil Authorities: consisting of following
	categories:
MACC	Military Aid to the Civil Communities
	Assistance in an emergency
MACM	Military Aid to the Civil Ministries
	Assistance in the event of industrial action
MACP	Military Assistance to the Civil Powers
	Assistance to the police
MCA	Maritime and Coastguard Agency
MCA	Military Coordinating Authority
MOD	Ministry of Defence
mSv	Milli-Sievert
	International measurement of radiation dose used to show the
	equivalent dose absorbed in human tissue or an organ.
NERIMS	Off-Site Nuclear Emergency Response Information Management
	System used by the MOD
NHS 111	NHS 24 hour telephone helpline
NPV	Nuclear Powered Vessel
ONR	Office for Nuclear Regulation
ООН	Out of hours

OSNE	Off-Site Nuclear Emergency
PHE	Public Health England
PHE Centre	Local unit of Public Health England
PHE CRCE	Specialist unit of Public Health England providing expert advice for
	radiation, chemical and environmental hazards
PHTO	Public Health Tactical Officer
PITs	Potassium Iodate Tablets
PORTNUSAFE	HM Naval Base Portsmouth Site Specific Operators Emergency
	Plan
PPE	Personal protective equipment
	(E.g. clothing, gloves, masks etc.)
Receiving	A&E hospital designated to receive casualties from a major
hospital	incident
REPPIR	Radiation (Emergency Preparedness and Public Information)
	Regulations 2001
Rest Centre	Local authority centre for evacuees
RCG	Recovery Co-ordinating Group
	Sub-group of SCG
RSA	Reactor Safety Alert
RVP	Rendezvous Point
SAGE	Scientific Advisory Group in Emergencies
	Responsible to central government for co-ordination and peer-
	review of available scientific and technical advice
SCAS	South Central Ambulance Service
SCC	Strategic Co-ordinating Centre
	Multi-agency support cells to the Strategic Co-ordinating Group
SCG	Strategic Co-ordinating Group
	Multi-agency group providing strategic direction in an incident
Silver	Single agency tactical level of management in an incident

SITREP	Situation Report		
	Each emergency responder may produce a Situation Report		
	(Sitrep) for their own organisation to share information and information		
	situational awareness and decision-making. These can be used to		
	produce a multi-agency Common Operating Picture (COP) (using a		
	national template) for consideration by a Strategic Coordinating		
	Group (SCG).		
SSILs	Site Specific Intervention Levels		
	These are radiation doses selected from the Emergency		
	Reference Level Range at which a particular countermeasure		
	would be implemented for a specific site		
STAC	Scientific and Technical Advice Cell		
	Sub-group of SCG		
SOTNUSAFE	Port of Southampton Site Specific Operators Emergency Plan		
TCG	Tactical Co-ordinating Group		
	Multi-agency group providing tactical management of an		
	incident		
VTC	Wassel Treffic Comisses		
VTS	Vessel Traffic Services		
	A marine traffic monitoring system established by harbour or port		
	authorities, similar to air traffic control for aircraft.		
	In Portsmouth this function is undertaken by the Queen's Harbour		
	Master (MOD) and by the Harbour Master in Southampton (ABP).		

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OFFICIAL - PUBLIC VERSION PORTSMOUTH

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1.1 Reactor Emergency Plan policy

1.1.1 Introduction

Designated locations in the port cities of Portsmouth and Southampton, known as operational berths, are licensed to receive visiting nuclear powered vessels.

The Radiation (Emergency Preparedness and Public Information) Regulations (REPPIR) 2001 requires the local authority, for the area in which a nuclear powered vessel is berthed, to produce an Off-Site Nuclear Emergency plan.

The Reactor Emergency Plan is a site-specific plan outlining the multi-agency response to the declaration of an Off-Site Nuclear Emergency at the operational berths in Portsmouth and Southampton and is produced jointly by Portsmouth City Council and Southampton City Council.

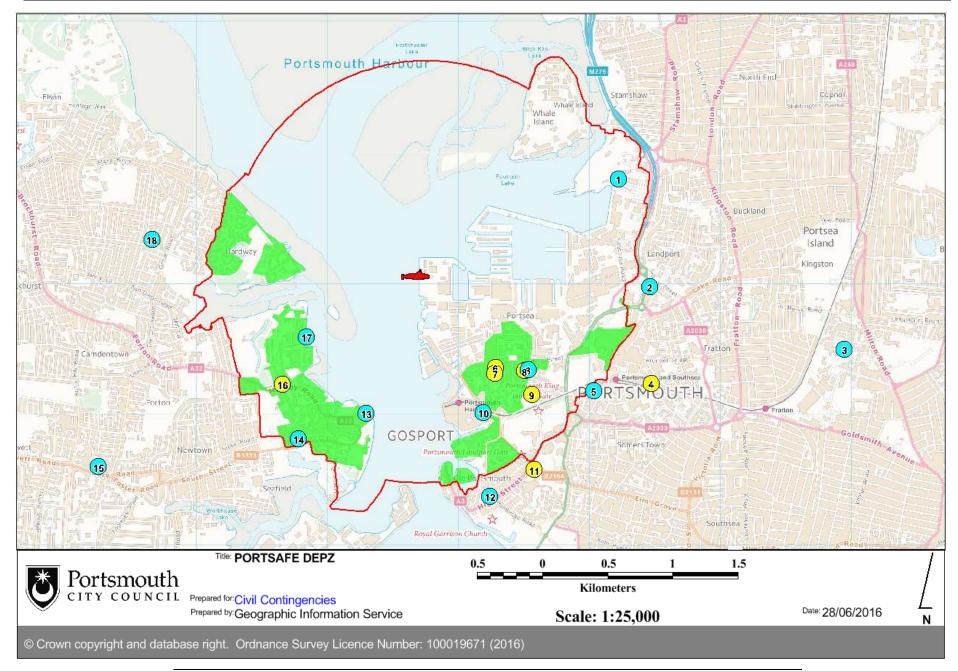
1.1.2 On and Off-site plans

The Radiation (Emergency Preparedness and Public Information) Regulations (REPPIR) 2001 defines on and off-site plans as:

- On-site: the area considered to be the operator's premises and under their control. The MOD is the operator and has developed plans setting out the on-site response to an emergency at the Portsmouth and Southampton operational berths (PORTNUSAFE and SOTNUSAFE).
- Off-site: the area outside the operator's premises where a member of the public is likely to be affected by a radiation emergency, and where detailed emergency plans and public information arrangements are required. This area is known as the Detailed Emergency Planning Zone (DEPZ). For the Portsmouth and Southampton operational berths, this is defined as an area extending to a minimum of 1.5 km from the centre point of the operational berth, with the boundary following the inner edges of roads, natural boundaries and distinctive pathways on land, and with a radius of 1.5 km across all marine areas. The DEPZs for both Portsmouth and Southampton operational berths have been determined by the Office for Nuclear Regulation and are illustrated overleaf.

Portsmouth and Southampton City Councils produce the off-site plan on behalf of the emergency services, neighbouring local authorities and other agencies that may be required to respond to an accident that affects the population in the DEPZ.

Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team are responsible for co-ordinating the off-site multi-agency activity in preparation for a visit by a nuclear powered vessel to their respective cities. Responding agencies are responsible for their individual operational preparations.



SOUTHAMPTON REMOVED FROM PORTSMOUTH PUBLIC VERSION

1.1.3 Aim and objectives of the Reactor Emergency Plan

The **aim** of the plan is to:

 Minimise the impact on the public by outlining the off-site multi-agency preparedness, response and recovery arrangements in the event of the declaration of an Off-Site Nuclear Emergency (OSNE) at an Operational Berth in Portsmouth or Southampton.

The **objectives** of the plan are to:

- Describe the off-site multi-agency management structures, preparatory actions and response arrangements in the event of the declaration of an OSNE
- Identify the role and responsibilities of individual organisations
- Describe the immediate mitigation actions necessary to contain and limit harm to people, the environment and property
- Identify supporting plans and organisations
- Detail specimen warnings and information to the public
- Outline recovery and restoration actions.

1.1.4 Scope of the plan

The plan outlines the off-site preparations to receive a nuclear powered vessel and the response to the declaration of an Off-Site Nuclear Emergency (OSNE) at an alongside operational berth in Portsmouth or Southampton

The plan covers initial response activity and public protection measures required within the DEPZ around the alongside operational berths. It is an enabling plan to ensure that the appropriate measures are in place during the initial stages of the accident. Additional actions may be required as the accident progresses that are not contained in the plan, which are developed as part of the on-going risk assessment for the accident.

The plan does not include:

- The on-site response detailed in PORTNUSAFE and SOTNUSAFE
- Procedures at the designated anchorages (although aspects of the plan may be implemented in the event of an accident). These arrangements are contained

in the MOD's PORTNUSAFE Plan Section 11. In regards of actions for the hotels on the Solent forts the MOD, through the Harbour Master, will advise the forts to evacuate at OSNE.

- Details of supporting plans and procedures
- Individual organisations' operational plans and procedures

1.1.5 Local authority areas

The DEPZs around the Portsmouth and Southampton operational berths cover multiple local authority areas:

Portsmouth DEPZ	Southampton DEPZ
Portsmouth City Council	Southampton City Council
Hampshire County Council	Hampshire County Council
Gosport Borough Council supported	New Forest District Council supported by
by Hampshire County Council &	Hampshire County Council
Portsmouth City Council	

If countermeasures are required outside the DEPZ then the following local authorities may be affected:

Portsmouth DEPZ	Southampton DEPZ
Fareham Borough Council	Eastleigh Borough Council (supported
(Hampshire County Council)	Southampton City Council)
Havant Borough Council (Hampshire	Fareham Borough Council (Hampshire
County Council)	County Council)
Winchester City Council (Hampshire	Test Valley Borough Council
County Council)	(Hampshire County Council)
Isle of Wight Council	Winchester City Council (Hampshire
	County Council)
Chichester District Council (West	
Sussex County Council)	
West Sussex County Council	

Each local authority is responsible for the deployment of its own response and resources within its boundaries, and providing senior representation at the relevant Tactical Co-ordinating Group (TCG) and the Strategic Co-ordinating Group (SCG) in accordance with service level agreements/memorandum of understanding.

1.1.6 Management of the Reactor Emergency Plan response

The generic national framework for managing emergency response and recovery is detailed in the Civil Contingencies Act 2004. There are three multi-agency management tiers in the framework: Operational, Tactical and Strategic. For more details of the HIOW LRF command and control arrangements refer to the **Emergency Response Arrangements**.

Declaration of an OSNE triggers a major incident response and all 3 levels of management are implemented. Responding agencies will also set up their major incident rooms to coordinate internal actions. In accordance with the HIOW LRF **Emergency Response Arrangements** document, the Hampshire Constabulary Duty Police Gold Commander will chair the initial SCG meetings or nominate an appropriate officer to do so.

The Operational Level

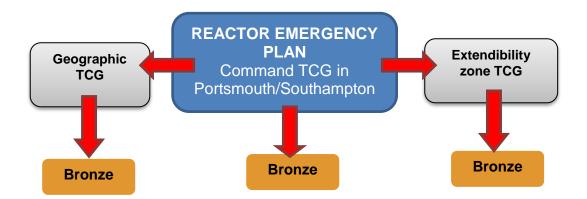
- The operational level, or Bronze, is the level at which the management of immediate "hands-on" work is undertaken, at the site of the incident. The multiagency Bronze is located in **Semaphore Tower** in HM Naval base Portsmouth and **Ocean Gate** in Southampton Eastern Docks.
- Bronze at HMNB Portsmouth is co-ordinated by the MOD Incident Commander and at ABP Southampton by the ABP Incident Officer supported by a MOD Incident Commander. The MOD is responsible for identifying and activating alternative locations, if required.
- Off-site authorities may also establish functional Bronzes to manage specific operational activity.

The Tactical Level

- The purpose of the tactical level is to ensure that actions taken at the operational level are co-ordinated and resourced in order to achieve maximum effectiveness and efficiency. The multi-agency Tactical Coordinating Group (TCG) will comprise the most senior officers of each agency committed within the area of operations, who will assume tactical command of the situation. The TCG will:
 - Determine priorities for allocating resources
 - Plan and co-ordinate how and when tasks will be undertaken
 - Obtain additional resources if required
 - Assess significant risks and use this to inform tasking of operational commanders
 - Ensure the health and safety of the public and responders
- In the HIOW LRF area the TCG is established as a meeting of SILVER level single agency commanders. Resources and infrastructure are limited so there is no joint 'ops room' operating at the tactical level. A state board is maintained in the TCG where the latest information – strategic and tactical objectives, alert

level, plume map, Common Operating Picture (COP) and weather information - will be displayed.

• The TCG location is pre-designated because MOD scientific, health and pre-installed infrastructure support is centred on existing facilities in Portsmouth and Southampton. The Portsmouth and Southampton TCGs will therefore operate as the Command TCGs providing advice, guidance and co-ordination to other geographical tactical groups that may be required. Hampshire Constabulary is responsible for co-ordinating the activities of the TCG.



- The Portsmouth Command TCG is located on the second floor of the Civic Offices, Portsmouth City Council within a corporate 'hot desk' area. The Southampton Command TCG is located on the second floor of City Depot, Southampton City Council within a similar area. The HIOW LRF Emergency Response Arrangements lists the facilities available and a layout of the space is in this plan at Part 2 Chapter 4 for Portsmouth, and Part 3 Chapter 4 for Southampton. Hampshire Constabulary is responsible for identifying and activating alternative locations, if required, and in consultation with Portsmouth/ Southampton City Council. Alternative locations are listed in the HIOW LRF Emergency Response Arrangements.
- Hampshire Constabulary will provide an incident support vehicle to support the TCG commander
- Affected local authorities will send liaison officers to the Command TCG.

- If a geographical TCG is required in other locations then responders should refer to the **Emergency Response Arrangements**.
- Once the TCG is activated, responding agencies should monitor the weather conditions and be prepared to set up an alternative location if the wind direction is forecast to change and affect the response area.
- In the initial stages of the incident the TCG will assume the strategic function until the SCG is established.

The Strategic Level

- The purpose of the multi-agency Strategic Co-ordinating Group (SCG) is to establish the policy and strategic framework within which the other levels of response will work. Chairing the SCG will fall to the police in the response phase and the affected local authority in the recovery phase. Government liaison will be based at the SCG. The SCG will:
 - Determine and publish a clear strategic aim and objectives and review them regularly
 - Establish a policy framework for the overall management of the event or situation
 - Prioritise the requirements of the tactical tier and allocate personnel and resources accordingly
 - Formulate and implement media-handling and public communication plans
 - Direct planning and operations beyond the immediate response in order to facilitate the recovery process
- Each affected local authority is represented by the Chief Executive or nominated deputy.

 The SCG is usually held at Hampshire Constabulary's Training and Support HQ, Netley and is supported by a Strategic Co-ordinating Centre. Hampshire Constabulary is responsible for identifying and activating alternative locations, if required. Full details are contained within the Hampshire and Isle of Wight LRF Emergency Response Arrangements.

1.1.7 Risk assessment

Radiation occurs naturally in the environment at a generally insignificant level. In the event of a reactor accident the levels of radiation would increase above the natural background and pose a potential hazard to the population. The reactors in use within visiting NPVs are designed and operated in such a way that an accident is highly unlikely, and there are only certain circumstances that could lead to an accident in which radiation and/or radioactive contamination would be present outside the vessel. A reactor accident that poses a potential hazard to the public will involve the release of fission products normally retained within the fuel elements in the reactor core. It is impossible for an accident in a pressurised water reactor to result in a nuclear explosion. More information is at **Part 3**.

MOD advice to local authorities contains the following generic optimised strategy for protection of the public, to be implemented on a precautionary basis on declaration of an Off-Site Nuclear Emergency (which would itself be declared on a precautionary basis):

- Provision and consumption of Potassium Iodate Tablets (PITs) by members
 of the public within 1.2kms downwind in order to protect against an uptake
 of radioactive iodine to the thyroid.
- Advice to members of the public in the 1.5km downwind PITs zone to shelter indoors in order to protect against a release of radioactive material.
 Although strict ERL considerations would suggest a smaller shelter zone there is longstanding advice from the National Radiological Board (now PHE) that these two protective actions should be linked.

MOD advise that any further protective action would not be justified on a precautionary basis but in the event of an accident should be considered by the civil authorities on the basis of specialist technical assessment of the development of the accident coupled with radiation monitoring measurements. MOD operators will provide this information and advice from an early stage.

On the basis of the MOD HIRE, ONR have determined that the area within which any member of the public is likely to be affected is an area extending to a minimum 1.5 km from the centre point of the operational berth.

Operational berths are cleared for operational or recreational visits only and no maintenance or repair of nuclear plant is permitted. The operational berths are present in:

Portsmouth harbour and anchorages
ABP Southampton

1.1.8 Nuclear vessel movement

The primary hazards associated with berthing and movement operations are from collision or grounding. All vessel movements are conducted in accordance with approved safety documentation, are administratively endorsed by Navy Command and operationally approved by the Queen's Harbour Master / Southampton Harbour Master.

1.1.9 Hazards

There are two types of hazard associated with a nuclear reactor emergency:

- Radiation hazard. An Off-Site Nuclear Emergency (OSNE) can result in the
 emission of direct gamma radiation in the immediate vicinity of the NPV.
 Protection measures include reducing the time spent close to the radiation
 source, increasing the distance between people and the source and shielding
 people indoors.
- Contamination hazard. An Off-Site Nuclear Emergency (OSNE) can result in the release of radioactive particles. These can collect on exposed surfaces such as walls, clothes, food and skin and are harmful to people and other living organisms that come into contact with it.

Radiation exposure from these hazards can lead to biological effects such as changes to cells and changes to DNA, the molecule which contains the information used to control our growth and development. It is possible that these changes may not show up for a length of time following exposure to radiation. Different types of radiation can cause different effects and some parts of the body are more sensitive to radiation than others.

In general the risk of radiation exposure reduces according to the distance and time from the source of radiation, with the most acute effects present closest to the vessel and gradually decreasing outwards as weather conditions and shielding from buildings disperse radioactive contamination.

The following actions can be taken to minimise the effects of exposure to radiation and contamination as a result of a nuclear accident:

- Sheltering by staying indoors. Doors and windows should be closed to help stop direct exposure, inhalation and contamination of surfaces inside buildings.
- **Potassium Iodate Tablets** (PITs) can help prevent radioactive iodine from concentrating in the thyroid gland.

- Evacuation can help reduce or avoid radiation exposure by increasing the
 distance between people and the source of radiation/contamination.
 Evacuation is not advisable if the release is likely to start before the
 evacuation is complete.
- Food bans of milk and other foods may be necessary. This will prevent
 contaminated foodstuffs being consumed by people. Evidence from past
 radiation emergencies is that food controls (especially milk restrictions) and
 advice could be the most important countermeasures in terms of reducing
 public health impacts from radiation.

1.1.10 Reactor accident definitions

Alert	Definition		
Reactor Safety	An abnormal event that poses a potential threat to, or		
Alert	cause serious concern for, reactor plant safety. At this		
	stage there is no risk to the public		
Off-site Nuclear	A hazardous condition which requires the		
Emergency (OSNE)	implementation of urgent countermeasures to protect		
	the public in the DEPZ		
OSNE qualifiers			
Radiation hazard	An Off-Site Nuclear Emergency in which a radiation		
confirmed (RHC)	hazard has been detected in the DEPZ		
Release of	An Off-Site Nuclear Emergency in which a release of		
radioactive material	radioactive material to the environment has been		
confirmed (RRMC)	detected in the DEPZ		

The Commanding Officer of the vessel is empowered to declare an Off-Site Nuclear Emergency on behalf of MOD. The MOD will provide immediate notification of an Off-Site Nuclear Emergency to the civilian authorities (see **Part 2 and 3**). It is envisaged that the declaration of an Off-Site Nuclear Emergency will be made on a precautionary basis in advance of a hazard occurring.

The MOD will subsequently notify the civilian authorities if there is change of condition:

- A radiation hazard confirmed
- A release of radioactive material confirmed

All pre-planned countermeasures for immediate public protection are implemented automatically in response to the declaration by the MOD of an off-site nuclear emergency. This will ensure that all necessary countermeasures are put in place before there is any risk to the public.

1.1.11 Reactor accident planning zones

There are four planning zones for dealing with a reactor accident, expressed in terms of distance from the vessel moving out form the accident location:

Exclusion zone

The exclusion zone is the area, including the vessel, in which people would be at greatest risk from the hazards of an accident. Within this zone all non-essential personnel are evacuated to an Exclusion Zone Reception Centre (EZRC) with access to medical, radiation protection, monitoring and decontamination facilities. Management of the zone is detailed in the operator's on-site plan.

Automatic countermeasures zone (ACMZ)

This is where automatic actions would take place immediately on the declaration of an Off-Site Nuclear Emergency. Within this zone all people not essential to the management of the emergency would be evacuated and issued with PITs as directed. Evacuation and alerting of an incident would occur via loud hailer announcements and by the sounding of a siren. All people working within this zone must be given instructions prior to the visit on what action they should take in the event of an emergency. In Portsmouth this zone is contained wholly within the naval base and management of the area is detailed in PORTNUSAFE. In Southampton this zone comprises the Eastern Docks area including the National Oceanography Centre. Management of the area is detailed in this plan at Part 3.

Detailed Emergency Planning Zone (DEPZ)

In this zone pre-planned countermeasures are implemented to protect the public. The public are advised to shelter, receive PITs and evacuate if required. The DEPZ extends to a minimum of 1.5kms from the berth.

Extended Emergency Planning Zone (EEPZ) (Outline Planning)

In this zone the implementation of emergency counter-measures are only required in the event of a large release of fission products where a hazard could be present outside the DEPZ. The extent of the zone will depend on modelling and monitoring information.

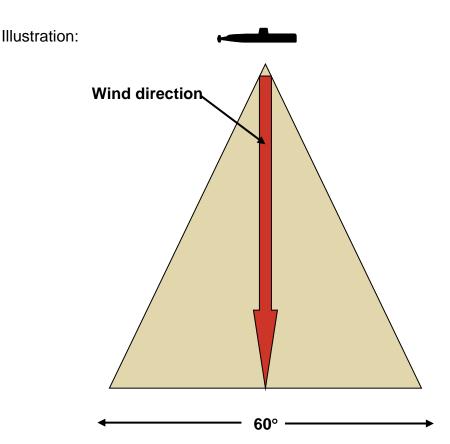
1.1.12 Downwind zone

This is the area immediately downwind of the vessel where airborne radioactive material could be carried in the atmosphere. People in the downwind zone are therefore most at risk, and precautionary public protection measures to shelter and take PITs will apply.

The zone is a 60° cone centred on the vessel and extending to the DEPZ boundary for pre-planned countermeasures.

The downwind zone is plotted on a map by:

- Plotting the position of the vessel
- Plotting the wind direction
- Drawing a 60° cone from the vessel centred on the wind direction



1.1.13 Extended Emergency Planning Zone

In the event of a large release of fission products to the atmosphere it may be necessary to extend the implementation of countermeasures beyond the DEPZ. This area is called the Extended Emergency Planning Zone (EEPZ) and is generally a continuation of the downwind zone, unless monitoring indicates a reduced or increased area at risk.

Further protective action would be considered by responding agencies on the basis of specialist technical assessment of the development of the accident, radiation monitoring measurements and the assessment of the benefit of adopting any particular measure. MOD operators will provide this information and advice from an early stage. The countermeasures available would include shelter, issue of PITs, drinking water, food and animal measures.

Outline planning information for an EEPZ is at Part 2 Chapter 8 (Portsmouth) and Part 3 Chapter 8 (Southampton).

1.1.14 Mitigation measures

Mitigation measures seek to limit the potential impact of ionising radiation by reducing exposure through the effects of time, distance and shielding. Depending on the severity of the accident and the weather conditions there may be a need to implement countermeasures downwind of the accident site.

The criteria for the implementation of emergency countermeasures are based on the principle that the countermeasure should achieve more good than harm. As all interventions pose a degree of risk, consideration of the risk to the individual is the determining factor in the decision to implement countermeasures. The guiding principles are:

- Countermeasures should be introduced to reduce radiation effects on the individual
- The increase in probability of the individual suffering cancer or hereditary effects from radiation exposure in the absence of countermeasures should be balanced against the detriment of the countermeasure itself

PHE CRCE has recommended dose criteria for the implementation of emergency countermeasures. These intervention levels are known as Emergency Reference Levels (ERLs) and are specified in terms of the dose to the individual, which would be averted by taking the relevant countermeasure. ERLs are specific to each countermeasure because the detriment associated with each measure is different, and are promulgated as a range between values. If doses that can be avoided by the measure are **below** the lower level for that measure, then PHE CRCE advises that the countermeasure should not be implemented as it would be unlikely to be justified. If doses that could be avoided are estimated to **exceed** the upper level, then PHE CRCR would expect every effort to be made to implement the measure.

Like ERLs, Site Specific Intervention Levels (SSILs) refer to the dose that can be avoided by taking the countermeasure, and are determined for each licensed site. The implementation of countermeasures for the Reactor Emergency Plan has been agreed at the following SSILs:

Shelter: lower ERL 3mSv

PITs: lower ERL 30mSv where practical

Evacuation: lower ERL 30mSv

The basic methods of reducing radiation exposure – time, distance, shielding – are incorporated into **immediate public protection measures**:

 Remaining indoors with windows and doors closed to provide shelter from any radioactive cloud that may have been released

 The administration of potassium iodate tablets to prevent the uptake of radioactive iodine by the thyroid gland

 Restrictions on the use of fresh foods and dairy products to prevent the ingestion of any radioactive material

 If required, temporary relocation or evacuation from areas where radioactive material may have been deposited.

Post-response measures:

Longer term food controls beyond the emergency response zones.

 Relocation of the public from contaminated areas to avoid long-term radiation or to allow decontamination.

1.1.15 Pre-planned countermeasures

There are three pre-planned countermeasures for immediate public protection. They are implemented automatically, in response to the declaration by the MOD of an off-site nuclear emergency:

 Sheltering: public in the downwind zone are advised to stay indoors with windows and doors closed

• **Issue of PITs**: pre-distributed PITs are issued to public in the downwind zone at OSNE. The decision to advise the public to take PITs is the responsibility of the relevant Director of Public Health.

 Contingency planning for evacuation: temporary evacuation of the affected population. Evacuation is not advisable if the release is likely to end before the evacuation is complete.

1.1.16 Health and safety of responders

Occupational Health Services/Radiation Protection Advisors within each responding agency are responsible for the provision of health and safety and welfare advice to their respective personnel. Defined injuries and dangerous occurrences affecting people on- or off-site should be reported to the Office for Nuclear Regulation under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 SI 3163 (RIDDOR).

The emergency services may be required to deploy to the scene, and individual service emergency exposures are detailed below. In the event of a release outside the bounds of the naval base there may be a requirement to carry out tasks related to the nuclear accident (public order, evacuations) as well as other non-related emergency incidents. Interventions will need to be decided on a case by case basis, with regard to the agreed emergency exposure limits for the emergency service(s), and the justification for the proposed intervention. The overarching principle for intervention is that it should be undertaken only if the reduction in detriment is sufficient to justify the harm and costs. For example, letting a fire burn out when it poses no risk to people or other buildings may be more appropriate than exposing staff to radiation risk. Intervention exposures must always be as low as reasonably practicable.

Local authorities

The following organisations have considered the possible need for its staff to be subject to emergency exposures and have identified that there are no foreseeable actions that would require it. As a result the organisations have not sought the agreement of staff (directly employed and contractors) to undergo emergency procedures in accordance with REPPIR Section 14.

- Portsmouth City Council
- Southampton City Council

- Hampshire County Council
- Gosport Borough Council
- New Forest District Council

Tasks within a radiation release area that would normally be undertaken by Local Authority personnel, their contractors or voluntary sector agencies in an emergency response will need to be undertaken by organisations that have identified the need to for their staff to be subject to emergency exposures. An example of this situation would be coach drivers for evacuations taking place during a release, where the police or military may need to provide.

Hampshire Constabulary

Hampshire Constabulary has identified the possible need for some of its employees to be subject to emergency exposures. In all cases of emergency exposures the service will seek advice from the police Radiation Protection Advisor. Females of child bearing age and men considering fathering children should be excluded from these activities. For planning purposes emergency exposure dose limits for the police are:

Exposure limit	Application			
	For life-saving intervention only. This also includes			
500 mSv	intervention to save critical infrastructure which if not			
	attended, may yet threaten public and/or responder life			
100mSv	For simple non-life-saving rescues, maintaining important			
	plant and reducing future doses to responders and the public			

Service procedures for police responders are as follows:

The first alarm for the detector pager sounds at 100 μSv (micro-Sieverts).
 Police officers are to take note of the surroundings, report findings, and withdraw 100 metres. This dose of radiation is equivalent to a long distance plane flight and increases the risk of developing cancer above the normal risk level is 1 in 250,000 over their lifetime.

- The second alarm is at 5 mSv (milli-sieverts) and is the annual dose limit for classified radiation workers. This dose is equivalent to a medical CT scan and increases cancer risk to 1 in 5000
- The third alarm is at 100 mSv. This can cause a reduction in red blood cell count and increases the cancer risk to 1 in 250
- The 500 mSv limit is a police intervention dose for life saving activity and increases the risk of cancer to 1 in 50. It can also cause temporary sterility and mild skin reddening.

The Police CBRN commander will determine the deployment of CBRN trained officers at off-site cordons, and the appropriate detection and monitoring arrangements. CBRN officers are equipped with PPE and Radiation Detector Pagers. The constabulary has access to 2 x Ram Gene units to measure dose rates and contamination. HFRS DIM team will conduct most of police monitoring because of their greater detection capacity.

Hampshire Fire and Rescue Service

Hampshire Fire and Rescue Service has identified the possible need for some of its employees to be subject to emergency exposures. Normal operational procedures will apply which allow for male fire fighters to be exposed to a limit of 20mSv total dose absorbed per incident. Female fire fighters are excluded from emergency exposure.

South Central Ambulance Service

SCAS has identified the possible need for some of its employees to be subject to emergency exposures. Dose levels are detailed in NHS Emergency Planning Guidance *The ambulance service guidance on dealing with radiological incidents and emergencies*. In all cases of emergency exposures the trust will seek advice from the service's Radiation Protection Supervisor and the PHE Radiation Protection Advisor.

Dose reference level	Exposure limit	Application
1	1mSv	For all staff per event
		No staff under 18 years, no trainees and no female
		employee who is pregnant or breast feeding will
		receive emergency exposure above 1mSv
2	5mSv	For CBRN decontamination (volunteers)
3	100mSv	For life saving operations where the casualty cannot
		be immediately removed from the hotzone
		(volunteer HART personnel)
Annual dose	20mSv	Volunteers
level		

Issue of personal emergency equipment at naval base

Upon arrival at Bronze all Hampshire and Fire Rescue Service, SCAS and Hampshire Constabulary personnel will be issued with an 'Emergency Bag' by MOD personnel as detailed in the site specific Operator's Plan. Each personal emergency bag contains:

- 1 x personal electronic dosimeter (PED)
- 1 x thermoluminescent dosimeter (TLD)
- 2 x potassium iodate tablets (PITs)
- 1 x particulate respirator

If the PED alarm operates, personnel should take 2 PITs tablets immediately, don the particulate respirator (if breathing apparatus is not worn) and evacuate to the holding area.

General welfare

Responders may be working long hours in difficult circumstances. Organisations are to put in place arrangements for:

- Appropriate rest breaks and shift patterns
- Refreshments including a hot meal
- · Toilet and wash facilities

- A separate rest area away from the media and evacuees
- Monitoring arrangements for staff welfare, including the long-term impact on staff
- Requirement for PITs
- Debrief opportunities

1.1.17 Supporting plans

The multi-agency response to a REACTOR EMERGENCY PLAN incident will be complex and extensive. It will utilise existing command and control arrangements. The main supporting plans are:

Portsmouth City Council /	Emergency Response Plan
Southampton City	Rest Centre Plan
Council	Traffic management procedures
	PITs distribution plan(s)
Hampshire Constabulary	AP058 - Portsafe Action Plan
	AP151- Sotonsafe Action Plan
	AP023B - Casualty Bureau Host Force
Hampshire & Isle of Wight	Emergency Response Arrangements
LRF	Warning and Informing Plan
	Managing Excess Deaths Plan
	Humanitarian Assistance Guidance
	Community Recovery Plan
	CBRN Protocol
	Plan for the establishment and operation of a
	Radiation Monitoring Unit
	Mass Evacuation and Shelter Guidance
Marine	SOLFIRE
	MCA National Contingency Plan
	Solent Environment Group Marine Pollution
	Contingency Plan
Hampshire County and	Major Incident Plan
Districts	Community Recovery Plan

Fareham Borough	Emergency Response Plan
Council	
Gosport Borough Council	Emergency Response Plan
Havant Borough Council	Emergency Response Plan
Winchester City Council	Emergency Response Plan
New Forest District	Emergency Response Plan
Council	
NHS England - South	Incident Response Plan
(Wessex)	

1.1.18 Finance

Charge for preparation, review and testing of the plan

REPPIR Section 12 allows the local authority (Portsmouth City Council, Southampton City Council and Hampshire County Council) to charge the operator (MOD) for performing local authority functions in relation to the preparation, review and testing of the off-site plan.

Costs must be reasonable and should not exceed the sum incurred by the local authority. The local authority can charge reasonable costs incurred in arranging the participation of the emergency services in the testing of the plan. The process requires agencies to submit their invoice to the Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team, who submit a combined invoice to the MOD.

The local authority, subject to the agreement of MOD, will charge for the production and distribution costs of the public REPPIR leaflets. Portsmouth City Council produces the leaflets for the DEPZ in Portsmouth and Gosport. Southampton City Council produces the leaflets for the public information zone in Southampton and the New Forest.

It is the policy of Portsmouth City Council, Southampton City Council, Gosport Borough Council, New Forest District Council and Hampshire County Council that staff time incurred in the preparation and review of the plan, and planning for the statutory

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test, is charged. Staff time incurred through participation in the statutory test is not charged. Consumable items such as refreshments at the statutory test are charged.

Response to accidents

Initial costs will fall upon responding agencies. Organisations wishing to recoup costs post-incident should seek the advice of their government department or the MOD.

Recovery and restoration

It is government policy to seek compensation or the recovery of costs in any REPPIR incident where clean up action or precautionary measures are taken to prevent or reduce the threat of pollution or contamination. The general principle is that the polluter should pay.

For the purposes of the Reactor Emergency Plan the operator is the MOD. Cost recovery mechanisms will be determined by central government. In all cases local authorities should proceed with clean-up operations on the assumption that a claim will be made or government resources will be provided.

A full and accurate record of all expenditure associated with an REPPIR incident and a clean-up action is to be kept, to substantiate claims or support formal inquiries.

Claims Procedures

The MOD will deal with claims under the principles for radiation injury and damage (including the sole and absolute liability of the operator) established by the Nuclear Installations Act 1965. The MOD is prepared to consider reasonable claims for compensation for any loss or damage, which can be shown to have been directly attributable to the incident concerned. Each claim will be considered on its merits, taking into account the full circumstances surrounding the incident. Any claim received will be dealt with as expeditiously as possible but no fixed timescale can be given.

Any person or organisation suffering injury, damage or loss directly attributable to a Reactor Accident will be entitled to claim compensation.

If radioactivity affects areas outside MOD property it will be necessary to arrange for civilians in the affected area to register so that it is possible to prove their presence in the affected area and for health monitoring.

1.1.19 Training and exercising

Each responding agency is responsible for its operational and role based training.

All aspects of the Off-Site Nuclear Emergency Plan produced under REPPIR are required to be tested at least once over a 3 year period. Testing is based on accident scenarios identified from the operator's Safety Report as being reasonably foreseeable. The testing should aim to give an indication of the conditions that may exist on and off the site in the event of an emergency and should examine the adequacy and effectiveness of emergency plans.

Training, exercising and testing of the Reactor Emergency Plan is a modular programme conducted over the 3-year cycle. Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team are responsible for co-ordinating the test of the off-site plan in conjunction with organisations that have a role in the plan. MOD supports the test cycle with the production of a scenario and exercise material, in conjunction with the civil authorities.

The strategic elements of the test are demonstrated through the HIOW LRF LIVEX series of exercises. The site specific elements of the plan (PITs distribution, cascade callout exercise, local tactical management) are demonstrated according to the three-yearly programme. Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team are responsible for coordinating the local elements of the test.

1.1.20 Debriefs

Exercises

The requirement for exercise debriefs will be published in the exercise operational order. In general each participating cell or team will hold an immediate hot debrief,

identifying areas for improvement and areas which went well. ONR/DNSR will provide a hot debrief at the conclusion of the test followed by a formal report.

Responding agencies are to capture lessons identified on an organisational basis and progress internal issues. Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team will facilitate a formal multiagency debrief using the HIOW LRF debriefing process.

Accidents

It is likely that a number of formal government inquiries will be established following a REPPIR incident, with their own reporting procedures. In addition to any formal inquiry, the following reporting arrangements for capturing the sequence of events, decision-making and lessons learned apply:

- Responding agencies should capture lessons learned on an organisational basis and progress internal issues.
- Local authorities may wish to commission scrutiny panels to consider the effectiveness of their response.
- The affected local authority co-ordinates the production of a post-accident report and submit it to the Hampshire and Isle of Wight Local Resilience Forum.

1.1.21 Reactor Emergency Planning Group (REPG)

The role of the REPG is to deliver the off-site planning, preparation and response in the event of a nuclear reactor accident in the Hampshire operational berths. The responsibilities of the group are:

- To inform the public on the potential risks of radiation hazards involved in operating nuclear powered vessels.
- To produce and review the Off-Site Nuclear Emergency Plan.
- To provide an effective emergency response organisation in the event of an offsite nuclear emergency.

The following organisations are represented on the group:

Civil Authorities

- Portsmouth City Council
- Southampton City Council
- Eastleigh Borough Council
- New Forest District Council
- Gosport Borough Council
- Hampshire County Council
- Hampshire Constabulary
- Hampshire Fire and Rescue Service
- South Central NHS Ambulance Service
- Environment Agency
- Public Health England
- NHS England South (Wessex)

Naval/MOD (N) Representatives

- Naval Base Commander Portsmouth (or his representative)
- DSTL Radiological Protection Services
- Public Relations, HMNB Portsmouth

1.1.22 Plan approval

The Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team produce the Reactor Emergency Plan on behalf of the Chief Executives of each authority. Authority to issue the plan has been delegated to the Service Lead: Emergency Planning & Business Continuity Manager.

1.1.23 Plan review

The plan will be revised by agreement between Portsmouth City Council and Southampton City Council as follows:

- When a new risk assessment indicates the plan is out of date or a new risk identified
- When lessons learnt from accidents, experience or exercise indicates the plan is out of date.
- When a restructure (organisational or changes to other responders) or other changes to the organisation e.g. technical indicates the plan is out of date
- Every 3 years in accordance with REPPIR

1.1.24 Plan distribution and storage

A copy of the full plan is held by each organisation on the distribution list and published on the HIOW LRF ResilienceDirect pages. The plan (minus contact and operational details) is published on the Portsmouth City Council and Southampton City Council websites.

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1.2 Scientific and Health Response

1.2.1 Health strategy

The effectiveness of Off-Site Nuclear Emergency Plans is measured by the ability to reduce by quite small amounts any additional lifetime risk of cancer, rather than the ability to eliminate totally any additional radiation exposure. Countermeasures must achieve this without causing other detriments to affected people that could outweigh these relatively modest reductions in lifetime risk. Countermeasures should be enacted promptly when needed but are not introduced if their potential benefit would be less than the detriment they caused.

Previous radiation emergencies have shown 2 types of public health impact. The first category is possible health effects due to the public being exposed to radioactive materials. The second category is health effects that are not related to radiation exposure but occur instead as the result of stresses that the public experiences. Studies have shown that the second category of health impact is likely to account for the majority of the observed public health effects.

1.2.2 Health physics advice and monitoring

The main source of immediate radiation protection advice and monitoring support will come from MOD resources. In addition there are civilian assets which can be utilised both for the response and recovery phases. Public Health England is responsible for the overall co-ordination of radiation monitoring resources and strategy.

The presentation of radiological information is crucial to an effective public health response. MOD and civilian specialists should aim to provide technical detail in a way which places the information in context, and supports decision-making with understandable assessments of impact and options for mitigation measures.

1.2.3 Site Specific Intervention Levels (SSILs)

PHE CRCE has recommended dose criteria for the implementation of emergency countermeasures. These intervention levels are known as Emergency Reference Levels (ERLs) and are specified in terms of the dose to the individual, which would be averted by taking the relevant countermeasure. ERLs are specific to each countermeasure because the detriment associated with each measure is different, and are promulgated as a range between values. If doses that can be avoided by the measure are **below** the lower level for that measure, then PHE CRCE advises that the countermeasure should not be implemented as it would be unlikely to be justified. If doses that could be avoided are estimated to **exceed** the upper level, then PHE CRCR would expect every effort to be made to implement the measure.

Like ERLs, Site Specific Intervention Levels (SSILs) refer to the dose that can be avoided by taking the countermeasure, and are determined for each licensed site. The implementation of countermeasures for REACTOR EMERGENCY PLAN has been agreed at the following SSILs:

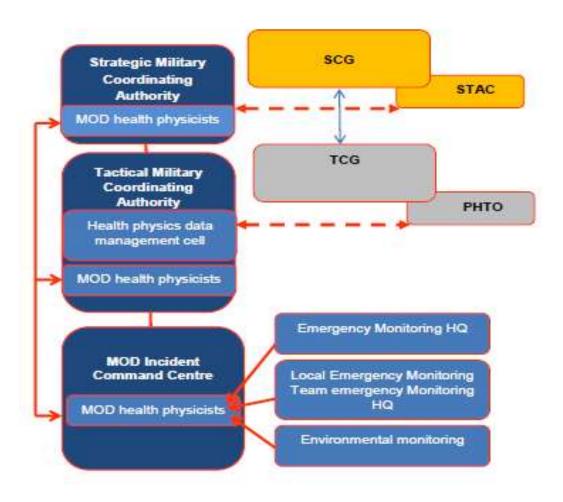
Shelter: lower ERL 3mSv

PITs: lower ERL 30mSv where practical

Evacuation: lower ERL 30mSv

1.2.4 MOD response

Structure of MOD scientific response



The role of the MOD's Nuclear Emergency Monitoring Team (NEMT) is to produce radiological information and advice to assist the decision-making process. This support is initially provided through locally deployed resources and may be supplemented by additional MOD, PHE CRCE and Environment Agency teams. Health physicists from the Defence Science and Technology Laboratory (DSTL) will provide radiation protection advice for workers, the public and the environment.

During the initial stages of an Off-Site Nuclear Emergency the priority will be to undertake air sampling and ground monitoring of any potential or actual release plume. Monitoring of gamma radiation to determine whether there is a radiation hazard external to the vessel is undertaken by the vessel itself and automatic monitoring systems. Air sampling

and ground monitoring will continue after the release stops to assist responders in their response and recovery strategies.

The MOD's scientific and health resources are organised as follows:

Operational level (Bronze/incident site)

- Nuclear Emergency Monitoring Organisation (NEMT). The task of the NEMT is
 to gather, process and present radiological information in a way that informs
 decision-making, for example, the need for shelter or evacuation, identification of
 areas where PITs should be distributed, stay times for re-entry to restricted zones
 etc. It comprises 3 elements:
 - Emergency Monitoring Headquarters (EMHQ). EMHQ is located adjacent to the site specific Bronze HQ and directs the deployment of monitoring assets and co-ordinates monitoring activity.
 - Nuclear Emergency Monitoring Team (NEMT). The NEMT is a mobile DSTL resource and provides air sampling information to the health physicists.
 - Environmental Monitoring. The Environmental Monitoring team provides data on radiation and contamination levels in the area.
- **Health physicists**. Their role is to provide advice to the MOD's Incident Commander on the appropriate on-site response to minimise hazards to people and the environment, and the adequacy of existing countermeasures.

During the early stages of an incident the priority will be to undertake air sampling and ground deposition monitoring on the central axis of the release plume. Sampling results are presented as activity per cubic metre of radionuclides, and the information is used to determine if automatic countermeasures have been effective.

Tactical level

- **Health Physics Data Management Cell.** The cell is part of the tactical military co-ordinating authority located in the Tactical Coordinating Group. Its role is to:
 - Assess, interpret and co-ordinate the supply of monitoring information from the MOD's Off-Site Nuclear Emergency Response Information
 Management System (NERIMS) to the rest of the response organisation.
 - Work with the civilian Tactical Local Authority Public Health Consultant.
 - Inform the EMHQ of monitoring priorities.
 - Liaise with 42 Eng Reg (Geo) on the production of mapping resources to support response activities.
- **Health physicists**. Their role is to provide advice on the hazards to the public and the implementation of countermeasures.

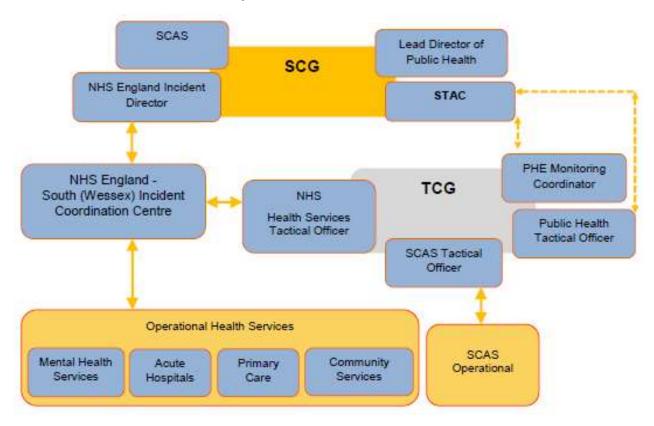
Strategic level

MOD health physicists will deploy as part of the strategic military co-ordinating authority. Their role is to:

- Provide advice on the hazards to the public and the implementation of countermeasures.
- Work with the Scientific and Technical Advice Cell (STAC).
- Liaise with medical staff on contamination levels, radiation doses and the treatment of casualties off-site.

1.2.5 Civilian agencies

Structure of civilian health response



Tactical level

Public Health Tactical Officer

The Public Health Tactical Officer (PHTO) provides public heath input to the Tactical Coordinating Group. The PHTO will operate during the response phase, and in the recovery phase until other structures are established or residual tasks revert to individual agencies. A Consultant in Public Health from the affected local authority will act as the PHTO.

The role of the PHTO is to:

- Act as the main point of contact between the Director of Public Health and the TCG
- Act as the main point of contact between the STAC and TCG.
- To work closely with the Health Physics Data Management Cell to provide public health advice to the TCG

- Providing the first point of contact for PITs related health queries and liaise with medical and public health partners to resolve queries
- Provide agreed STAC public health content for publication on local health and partner help lines, press and media releases

NHS TCG representative

The NHS TCG representative provides health services input to the Tactical Co-ordinating Group. The role will operate during the response phase, and in the recovery phase until other structures are established or residual tasks revert to individual agencies. The position is likely to be a senior manager from the local Clinical Commissioning Group (CCG).

The role of the NHS TCG representative is to:

- Provide a health service input to the TCG
- Act as the main point of contact between the NHS and the TCG
- Work with the NHS England South (Wessex) to support the coordination of the local NHS Providers and Clinical Commissioning Groups
- Work with local authorities to co-ordinate the health staff aspects of PITs distribution centres

South Central Ambulance Services Tactical Officer

The SCAS Tactical Officer provides the ambulance service input to the Tactical Coordinating Group.

Public Health England CRCE Monitoring Liaison Officer

The PHE CRCE Monitoring Liaison Officer acts a point of contact between MOD and the CRCE Monitoring Coordinator at CRCE. Their role is to:

- Provide information on location and capability of MOD and CRCE assets
- Update risk assessments and priorities for monitoring

Strategic level

NHS England - South (Wessex) Incident Director

The NHS England - South (Wessex) Incident Director for health services will input to the Strategic Co-ordinating Group (SCG). They will operate during the response phase, and in the recovery phase until other structures are established or residual tasks revert to individual agencies. This person will be a director or senior manager from NHS England - South (Wessex).

The role of the NHS Incident Director is to:

- Provide strategic health service input to the SCG
- Act as the main point of contact between the NHS and the SCG

South Central Ambulance Service Strategic Officer

The SCAS Strategic Officer provides the ambulance service input to the SCG.

Multi-agency Scientific and Technical Advice Cell

The Scientific and Technical Advice cell forms part of the SCG and provides timely and co-ordinated advice on scientific and technical issues. The STAC will operate during the response phase, and in the recovery phase until other structures (such as the Recovery Co-ordinating Group) are established or residual tasks revert to individual agencies. The role of the STAC is to:

- Provide co-ordinated, consistent and agreed scientific and technical advice to the SCG.
- On the evidence available, assess the impact of the emergency on public health and the environment, how the situation might develop and likely effects of mitigation strategies
- Establish radiation monitoring and decontamination strategies for the short, medium and long-term.

- Confirm the implementation of the REACTOR EMERGENCY PLAN public health countermeasures through the issue of off-site countermeasures advice for public protection (Annex A)
- Liaise with national specialist advisors and wider scientific and technical community as required
- Identify other agencies or individuals who should be invited to join the cell

It is recommended that the STAC sets up sub cells to focus on key issues:

- Health and welfare
- Environment and infrastructure
- Monitoring

Typical membership of the STAC:

- Consultant in Health Protection from PHE
- Strategic military co-ordinating authority health physicists
- Emergency services technical advisors
- Public Health England CRCE senior radiological advisers/liaison officers
- Public Health England Centre representative
- Environment Agency
- Food Standards Agency
- DEFRA
- Met Office
- Southern Water/Portsmouth Water
- Office for Nuclear Regulation
- Police Liaison Officer

1.2.6 Scientific Advisory Group in Emergencies (SAGE)

The UK national Scientific Advisory Group in Emergencies (SAGE) will be activated in support of all nuclear emergences where there has been an off-site release of radiological material, or a release is considered likely, or an incident has serious implications for the incident site and staff. SAGE is responsible for coordinating and peer reviewing, as far as possible, scientific and technical advice to inform national level decision-making. It will have a close, collaborative, and supporting working relationship to the STAC, peer reviewing the assessments and scientific advice which will shape decision-making. SAGE will typically focus on 3 main areas:

Peer review subgroup	Will interact with the local STAC, dialling into meetings and liaising with the STAC Chair
Horizon scanning subgroup	Will utilise national agencies' modelling outputs to estimate and forecast the scale and impact of a radiological release
Site technical prognosis subgroup	Will link with the site operator and nuclear regulators

1.2.7 Coordination of radiation monitoring

PHE CRCE is responsible for the provision of expert advice and information on the radiological protection aspects of the incident, assessing the impact of a release on:

- The immediate safety of people, including determination and confirmation of immediate public protection countermeasures, and provision of public reassurance monitoring
- The environment
- Food countermeasures

PHE CRCE has monitoring teams capable of undertaking and personal monitoring. Additional local capability may also be available through the MOD.

Radiation monitoring is both a response and recovery activity. A number of organisations identified in the DECC Off-Site Nuclear Emergency Planning and Response National

Strategic Framework have resources and the capability to undertake environmental and personal radiation monitoring. Public Health England is responsible for the strategic coordination of activities of these organisations, and the preparation of monitoring strategies for approval by the SCG through the STAC. Individual organisations retain tactical and operational control of their teams and resources. See **HIOW LRF Radiation Monitoring Unit Interim Operational Plan**.

The purpose of any monitoring strategy is to:

- Provide information to influence public protection measures i.e. extension or reduction of countermeasures
- Monitor the environment to determine the extent and nature of a release of radioactivity
- Monitor members of the public who may have been exposed to radioactivity
- Provide reassurance

Other key organisations and their responsibilities are:

- People monitoring: local health services and nuclear operators (MOD)
- Environmental monitoring: Environment Agency
- Food monitoring: the Food Standards Agency
- Public drinking water supplies: water supply companies (Portsmouth and Southern Water)
- Private drinking water supplies: local authority Environmental Health Officers
- Food in the retail chain: local authority Environmental Health Officers
- Non-food goods: local authority Trading Standards Officers

Portsmouth/ Southampton City Councils have no capability to conduct monitoring. Such activity would need to be in liaison with the DEFRA/FSA.

1.2.8 Decontamination of people

Contaminated casualties

Contaminated casualties will be decontaminated by SCAS using current Department of Health (DH) procedures before transportation to hospital. Decontamination will take place at a safe distance from the incident and will occur before any secondary triage or clinical intervention, other than basic life support and/or airway protection. Contaminated casualties with life threatening injuries may be transported to hospital before decontamination.

Hospital procedures

The ambulance service will identify a suitable receiving hospital for incident casualties. The relevant receiving hospital (normally QA in Portsmouth and UHS in Southampton) hospital will implement their CBRN plans for handling contaminated casualties. The plans cover:

- Radiation protection and personal safety
- Hospital lockdown procedures
- Triage priorities for radiation/nuclear incidents
- Action cards detailing staff roles and layout of facilities.

Decontamination of the public

The decision to decontaminate members of the public in the downwind plume will be taken by the SCG based on scientific and health information provided by the STAC. In general, decontamination should only be carried out if the overall health benefit outweighs the risk. It is not an automatic countermeasure.

Decontamination of people is a multi-agency task and the TCG is to establish a tactical management team to deliver an operational plan, in consultation with the PHE CRCE Monitoring Coordinator. Decontamination of evacuees should be carried out before they arrive at any rest centre.

There are several resources available for decontamination:

- MOD decontamination facilities in the Exclusion Zone Reception Centre. These facilities are set up immediately on declaration of OSNE and so are available quickly. However, they may be at capacity dealing with MOD personnel, may require transport assets to move members of the public into the base, and may be affected by proximity to the incident site. Use of MOD assets requires agreement under MACR through the SCG.
- HFRS mass decontamination unit. This system is a 'one –size' approach and
 may not be suitable in certain weather conditions or for very vulnerable people.
 Contaminated water run-off will need to be managed with the EA.
- Self-decontamination. Advice to shower and bag clothing.

1.2.9 Food monitoring

Evidence from past radiation emergencies is that food controls and advice could well be the most important countermeasures in terms of reducing public health impacts.

The FSA will develop a sampling strategy to determine the extent of contamination and to define the area requiring possible food restrictions. Reassurance monitoring and monitoring for impact assessment purposes should also be considered.

Food sampling will not be carried out in areas which are subject to shelter or evacuation advice. The boundary for food restrictions, and hence the area to be sampled, is likely to be larger than for other countermeasures. Initial effort will concentrate on easily collected samples such as grass and milk. At a later stage, other food stuffs may become more important. Consideration will be given to potential hotspots where deposition may be higher, for example hill sides and lee valleys.

Part 1 Chapter 3 Media and Public Information

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1.3 Media and public information

1.3.1 Background

There are two components of media and public information involving an off-site nuclear emergency, as directed by REPPIR 2001:

- The provision of information to the public in the DEPZ, prior to an incident, at intervals not exceeding 3 years
- Warning, informing and advising the public in the event of an emergency

In the event of the declaration of an off-site nuclear emergency, responding agencies will implement the **HIOW LRF Warning & Informing Plan**. The plan outlines a coordinated media and public information response to major incidents. This chapter provides the additional information required by REPPIR and to respond to the unique context of an off-site nuclear emergency.

1.3.2 Prior information to the public

REPPIR requires that the following information be provided to the public living in the DEPZ:

- Basic facts about radioactivity and its effects on people and the environment
- Types of radiation emergency relevant to the operator's site and the consequences for people and the environment
- Emergency arrangements for alerting, protecting and assisting the public in the event of a radiation emergency
- Information on the actions to be taken by the public in the event of a radiation emergency
- The authorities responsible for implementing emergency measures and actions

The duty to provide the information rests with the operator, who can seek the agreement of the local authority to issue it to the public. The information is to be issued at least every 3 years.

Portsmouth and Southampton City Councils produce and distribute the information on behalf of and in consultation with the MOD, Gosport Borough Council, New Forest District Council and Hampshire County Council. Portsmouth City Council and Southampton City Council recover the associated costs from the MOD. Copies of the leaflets are published on the public websites of Portsmouth City Council, Southampton City Council, New Forest District Council, Hampshire County Council and Gosport Borough Council. Copies of the leaflets are at Part 2 Chapter 6 for Portsmouth and Part 3 Chapter 6 for Southampton.

1.3.3 Aim and objectives of the Reactor Emergency Plan communications strategy

The **aim** of the Reactor Emergency Plan communications strategy is to ensure clear, accurate and timely information is provided to the public, staff and responders before, during and after a reactor accident.

The **objectives** of the strategy are:

- To provide a management framework for the provision of co-ordinated and consistent public information
- To inform residents in the pre-planned countermeasures zone of the risk and civil response arrangements
- To inform the public when an accident has occurred and what immediate actions to take
- To provide public health messages
- To warn, inform and reassure the public about the MOD and civilian response
- To co-ordinate and manage the communications response in the recovery phase
- To reassure the public when the accident is over and inform residents and businesses as services return to normal

An example Reactor Emergency Plan media management and public communications strategy is included at the end of this section.

1.3.4 Public advice in the event of an Off-Site Nuclear Emergency

It is essential that information about an accident and public advice be issued as soon as possible after the declaration of an off-site emergency. The aim of this initial announcement should be to provide an early warning to assist the swift broadcast of messages that will help to keep the public safe.

In accordance with the LRF Warning & Informing Plan, it is essential that agencies coordinate the release of information to the media to avoid inaccuracies and confusion. The lead agency communications and media representative will co-ordinate this activity through a joint media cell at the Strategic Coordination Centre. The media cell includes a **communications director**, usually a senior communications professional from the police, who participates in the SCG and delegates tasks from SCG to the media cell.

It is the role of the cell's **media manager**, usually a senior communications professional from the affected local authority, to ensure messages are co-ordinated and that joint statements are issued at intervals throughout the incident.

Individual agencies can issue information to the media on behalf of their own organisations but this information must be shared with other agencies involved in the incident, and must be logged by the media cell.

Pre-scripted statements have been created as guidance at Part 2 Chapter 3 for Portsmouth and Part 3 Chapter 3 for Southampton. Maps with street names and lists of streets in the DEPZ are required to complete some of the statements and can be obtained from the GIS cell at the SCC - ask for maps with street names on 1:10,000 scale.

1.3.5 Media liaison at the scene

The TCG, through Hampshire Constabulary media team, should establish a media liaison point as near to the scene as safety allows and in consultation with the MOD and SCG. Local agency spokespeople may be required at the media liaison point but any information provided and lines to take are to be cleared thorough the SCG and its multi-agency media team.

1.3.6 Media briefings and other press statements

Media briefings will be held at the SCC or other venue in accordance with the **HIOW** LRF Warning & Informing Plan. Hampshire Constabulary (through the Media Cell) will co-ordinate the multi-agency content for media briefings and press statements during the response phase. This is likely to switch to the affected local authority for the recovery and remediation phases.

The Media Cell will brief beforehand any participants who are taking part in press conferences or other media event. The pre-scripted media statements at Parts 2 and 3 contain preparatory information and content for this purpose under 'notes for editors'.

1.3.7 Casualty figures

Confirmed and updated civilian casualty figures can only be released after consultation with the GOLD Police Commander and SCG. The MOD will release their casualty figures, in consultation with the SCG.

1.3.8 Public information beyond the DEPZ

Public information may be needed beyond the DEPZ to provide public re-assurance or advice to the public if countermeasures are extended. The pre-scripted statements at Parts 2 and 3 can be used and the media cell will identify the appropriate transmission mechanism, which will likely include a proactive and coordinated use of social media channels across agencies.

1.3.9 Reactor Emergency Plan emergency communications plan (example)

Introduction

This sample emergency communications plan for REACTOR EMERGENCY PLAN is designed to be delivered using the framework set out in the over-arching Hampshire and Isle of Wight Local Resilience Forum (HIOWLRF) Emergency Communications Plan, and should be read in the context of that plan. This sample plan assumes sufficient resources are available to fully staff the LRF media cell, in accordance with the LRF emergency communications plan.

This plan is a sample only. In the event of an incident, the media director will develop a plan to respond to the specific location and needs of the situation.

The sample communications plan uses Portsmouth as the location of the emergency. These references should be modified to reflect the actual accident location.

Objective

The aim of this strategy is to support emergency responders in ensuring public safety during a reactor incident on a nuclear-powered submarine at an operational berth in Portsmouth and Southampton.

Specifically, the objectives are to:

- manage media interest to:
 - ensure information communicated via the media is accurate and carries the correct key messages
 - ensure members of the media do not disrupt the emergency response
- ensure people in the affected area are informed about the incident, understand the risks and the actions they need to take:
- ensure key target audiences outside the affected areas are informed about the wider impact and understand any actions they need to take to:
 - ensure their own safety and the safety of others
 - support/not hamper the emergency response

Spokespeople

Spokespeople from a range of agencies will be needed for media interviews from early in the incident.

A Hampshire Constabulary spokesperson, a senior uniformed officer, will be needed at the scene as soon as possible after OSNE is declared.

A health spokesperson, likely to be the Director of Public Health or an appropriate deputy, should act as media spokesperson on the potential health issues and the level of risk to provide reassurance, as soon as possible after OSNE is declared.

Spokespeople from: Hampshire Constabulary, affected local authority (senior council officer and representative from public health), and the MOD should be available for media briefings at the SCC at regular intervals. Spokespeople should be identified who are sufficiently senior to inspire public confidence but so that media interviews are not delayed as a result of key people being unavailable in SCG meetings.

Target audiences and tools

Media

- information via social media
- information via media statements
- media interviews at scene
- media briefings/press conference
- information on council and other agency websites

Residents and businesses in affected area(s)

- information delivered with PITs tablets
- information via emergency broadcasts through local radio/media
- information on social media
- information on council and other agency websites

Residents in wider area

- information via emergency broadcasts through local radio/media
- information on social media
- information on council and other agency websites

Motorists in affected and surrounding areas

- information via emergency broadcasts through local radio/media
- information on social media

Messages

Our overall aim is to protect the public from exposure to ionizing radiation, and to support emergency services in responding effectively to the incident.

The overall key message for residents and businesses in the affected area(s) is 'go in, stay in, tune in'.

Different messages will be appropriate at different times as every incident is different. Below are some pre-drafted example to assist with accuracy and speed of response (please also refer to pre-drafted media and social media statements, also available in the Reactor Emergency Plan).

Key messages: Background facts and scale

- The incident has happened on a nuclear-powered submarine in *insert location*.
- The incident involves the small nuclear reactor that is used to power the submarine.
- The reactor is the size of an industrial wheelie bin.
- There is absolutely no danger whatsoever of an atom-bomb type explosion.
- As a result of this incident, a small amount of radioactive material could be/has been released from the submarine.
- IF NOT YET RELEASED: The MOD/Royal Navy are presently working hard to prevent radioactive material from being released into the air. In the meantime,

precautionary measures are being taken now to make sure everyone is wellprepared if a release happens.

Key messages: Impact of incident

- The type of radiation that could be/has been released occurs naturally in the environment and comes from things like microwaves and televisions in extremely small quantities.
- Radiation is measured in millisieverts. The average amount of radiation people are exposed to is 3mSV a year, although the amount coming from the environment in some areas can be up to 10mSV a year.
- The amount of radioactive material that could be/has been released as a result of this incident is unlikely to be more than INSERT (CHECK AGAINST AMOUNT ON THE DAY).
- The emergency services are working hard to respond to this incident and have asked the public to help by only using the 999 number for real emergencies. If you need help but it's not urgent, please call 101 or INSERT HELPLINE.

Key messages: Location

- The amount of radioactive material that could be/has been released into the air is very small indeed. This means it only affects a very small area of insert location that is closest to the vessel.
- As the radioactive material has been released into the air, we look at the wind direction to work out exactly which area *could be/has been* affected.
- The area that is actually affected by the release of radioactive material is likely to be quite small. To be on the safe-side, we take precautionary measures in a bigger area, just to make absolutely sure people are not put at risk. Precautionary measures are being taken in the following area: INSERT STREETS
- Precautionary measures being taken include advising the public to go in, stay in and tune in, and distributing potassium iodate tablets to those affected

Key messages: By audience type

Residents/businesses outside the affected area

- If you do not live in the area where precautionary measures are being taken, you
 are not at risk and you can go about your business as normal.
- However, drivers are asked to avoid making unnecessary journeys in and around the city until the incident is over to keep main roads clear for the emergency services.
- INSERT IF NECESSARY: Roads in and around the area where precautionary measures are being taken have been closed, emergency traffic plans and in place and traffic congestion is likely on busy alternative routes.
- Do not attempt to go into the area(s) where precautionary measures are being taken, even if you are concerned about someone who lives or works there.
- The emergency services will make sure those in the area(s) are safe and well. If you try and go into the area, you could put yourself and other people at risk, and make it more difficult for the emergency services to respond to the incident.

Parents of children in school/nursery in area

- If you have a child at school or nursery in the area(s) where precautionary
 measures are being taken, we understand that you are likely to be concerned but
 please don't try and collect them.
- The schools and nurseries have enough Potassium lodate Tablets for all the children and will keep them inside where they are safe, and make sure they are well looked after.
- If you try and pick your child up, you could put yourself and your child at risk.
- The schools/nurseries in the area where precautionary measures are being taken are: INSERT NAMES.
- No other schools/nurseries are affected.

Residents/businesses in the area where precautionary measures are being taken

- The radioactive material that could be/has been released into the air won't make you feel at all unwell in the short-term.
- However, exposure to this type of radiation could be harmful to your health in the future as it slightly increases your risk of developing some cancers.

- It important you take action to make sure you are protected from exposure to the radioactive material, and so keep the slightly increased risk of cancer to an absolute minimum.
- You should protect yourself by going inside, closing your all your doors and windows, and turning off any fans or vents that draw in air from outside.
- You should stay inside until the emergency services or the council tell you it is safe
 to go outside. That information will come from local radio stations or from the
 council's website insert link or from the Police twitter feed (@hantspolice).
- If you have pets, where possible you should also bring them inside and keep them
 inside until you are told it's safe to go back out.
- If you live in the area where precautionary measures are being taken, Potassium lodate Tablets, which are sometimes called PITs, are being/have been delivered to homes. Each household will receive a strip of ten tablets (enough for five people) and an information pack.
- If you live in the area where precautionary measures are being taken and have not received your tablets, or do not have enough, call 0800 085 0375 (NOTE ONLY USE THIS MESSAGE WHEN PITS DISTRIBUTION IS COMPLETE)
- Potassium lodate Tablets help to reduce the risks associated with exposure to radioactive material by stopping the thyroid gland in your body from absorbing harmful material.
- EITHER The Potassium lodate Tablets have been/are being delivered as a precaution in case radioactive material is released into the air as a result of the incident involving the nuclear submarine at the dockyard. You do not need to take the tablets yet. You will be advised if you need to take the tablets. We will let you know via information on local radio, on the council's website insert link, and on twitter @hantspolice.
 - OR: The Potassium lodate Tablets *have been/are being* delivered. You are advised to take them as soon as you receive them.
- Information packs have been delivered with the tablets, which tell you all you need
 to know about the tablets, including safe doses for infants and small children, and
 for women who are pregnant or breastfeeding.

 If you are concerned about taking PITs and the leaflet enclosed with them does not fully answer your questions, please call the NHS on 101 and they will be able to help you.

(NOTE: THE FULL PITS INFORMATION LEAFLET SHOULD BE PROVIDED TO THE MEDIA)

Monitoring and responding to coverage

Media coverage on TV, radio, online and on social media will be monitored by the media cell and reported back to the SCG.

Inaccurate reporting will be addressed immediately.

Action plan example

This is an example of what the action plan to support this communications strategy COULD look like to show the types of actions that will need to be taken. DO NOT FOLLOW THIS SAMPLE ACTION PLAN. In the event of an incident, an action plan to deliver the communications strategy for that specific incident will be put together by the media cell manager.

In reality, many of the actions listed below would happen simultaneously and in a different order depending on how fast the media cell is established and working.

Action	Responsible	Time
MOD press office alerted to incident	MOD	
MOD press office ready with 'if-asked' statement, to be		
issued if media alerted to accident. (Note - if statement is		
issued council and police comms MUST be alerted)		
MOD press office alerts council and Hampshire	MOD	
Constabulary communications	Council	
MOD, council and police comms coordinate on media		
enquiries until multi-agency media cell established as part		
of SCG		
Obtain affected area map (including all road names) from	media cell: (runner)	
GIS		
Issue shelter statement (approved by media director),	media cell: (statement	
including incident specific messages and associated	team and social media	
tweets	team)	
Issue additional media information, including copy of info	media cell: (media	
delivered with PITs, pictures of PITs, copy of radiation info	response team)	
leaflet, picture of the sub (from MOD)		
Media liaison point established at scene	Hampshire	
	Constabulary	
Multi-agency media cell established as part of SCG, as	Hampshire	
per LRF emergency communications plan, and media	Constabulary	
director and media cell manager identified		

Action	Responsible	Time
Incident communications strategy developed by media	media cell: (media	
director and communicated to SCG for approval	director)	
Media cell roles and responsibilities allocated	media cell: (manager)	
Establish media and social media monitoring, and clear	media cell: (manager	
process for reporting monitoring in to media cell		
manager/director, and media response, statement and		
social media teams)		

Set-up media interviews with Police commander at the	media cell: (media
scene and public health professional at SCG - this needs	response team)
to happen as quickly as possible after issue of shelter	
statement	
Provide info to individual agency communications teams	media cell: (statement
for websites, social media, and internal communications	team)
On-going - respond to media enquiries and ensure info	media cell: (media
contained in responses provided to social media team to	response team and
share via twitter	social media team
On-going - use twitter to provide steady flow of reassuring	media cell (social
measures and reminders of advice	media team)
Issue PITs statement (approved by media director) with	media cell: (statement
incident specific messages, and associated tweets	team and social media
	team)
Provide info to individual agency communications teams	media cell: (statement
for websites, social media, and internal communications	team)
Provide public health professional for interviews with the	media cell (media
media at SCG - as soon as possible after the PITs	response team)
statement is issued to provide health info and reassurance	
Issue traffic information statement (not pre-scripted) and	media cell: (statement
associated tweets	team and social media
	team)
Provide info to individual agency communications teams	media cell: (statement
for websites, social media, and internal communications	team)
Provide media interview with Police or council re traffic	media cell: (media
situation and request for motorists to keep the roads clear	response team)
Set-up press conference for media at SCG	media cell: (media

	response team,
	facilities manager)
Issue radioactive release statement (approved by media	media cell: (statement
director), including additional incident specific messages,	team and social media
and associated tweets	team)
Provide info to individual agency communications teams	media cell: (statement
for websites, social media, and internal communications	team)
Provide public health professional and MOD radiation	media cell: (media
expert for interviews - as soon as possible after statement	response team)
release to support reassurance.	
Issue all-clear statement (approved by media director)	media cell: (statement
including incident specific information, and associated	team and social media
tweets	team)
Provide info to individual agency communications teams	media cell: (statement
for websites, social media, and internal communications	team)
Media cell to handover on-going communications to lead	media director/lead
council.	council

Part 1 Chapter 4 Potassium lodate Tablets

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1.4 Potassium iodate tablets

1.4.1 Background

In the event of a reactor accident levels of radiation would increase above the natural background and pose a potential hazard to the population. Individuals exposed to radiation may have an increased risk of developing health effects such as thyroid cancer in later life or hereditary defects. The administration of potassium iodate tablets (PITs) is a mitigation measure and prevents the uptake of radioactive iodine by the thyroid gland.

The PITs Distribution Plans for Portsmouth and Southampton contain the detailed walk routes and supporting information.

https://collaborate.resilience.gov.uk/RDService/home/34468/Radiation-Emergency-Preparedness-and-Public-Information-Regulations-2001

The issue of PITs to the public is a pre-planned countermeasure and is undertaken automatically at the declaration of OSNE. There are three stages to distributing PITs:

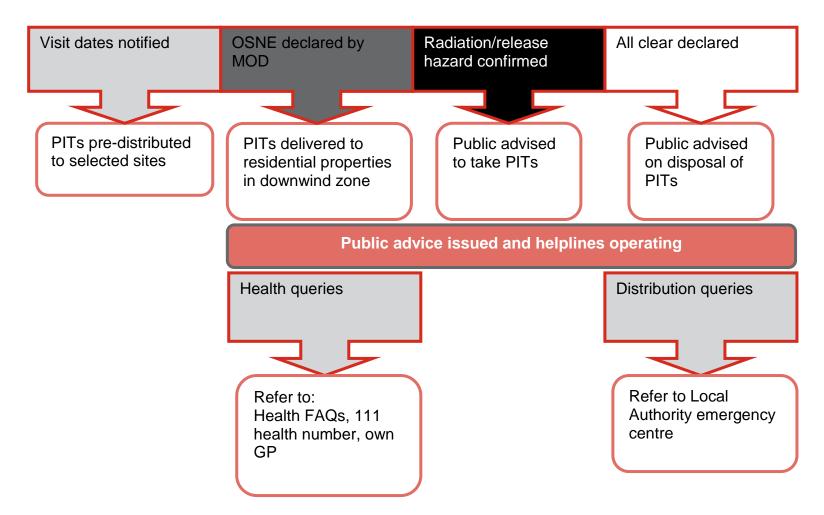
- Pre-distribution: Before a nuclear vessel arrives in Portsmouth/Southampton, PITs will be pre-distributed to selected education, emergency services' sites, contingency centres and hospital sites for the relevant DEPZ. The pre-distribution is made by Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team. PITs are provided by HM Naval Base Portsmouth.
- Delivery to the public in the event of an emergency: PITs are delivered
 to residents in the downwind zone on declaration of OSNE. In Portsmouth
 the deliveries are made by council staff. In Southampton the deliveries are
 made by MOD staff.
- Public told to take PITs: The decision that the public need to take PITs is
 made through the relevant Director of Public Health. The decision is based
 on a risk assessment that a release hazard is likely to occur, or
 confirmation from the MOD that a release hazard has taken place.

1.4.2 Risk factors

In limited circumstances potassium iodate can present a risk factor to those taking it. The only people who should not take the tablets are those who know they are allergic to iodine and those who suffer from the very rare conditions of hypocomplementaemic vasculitis or dermatitis herpetiformis. People who suffer from these conditions will have been told by their doctor.

In general the benefits of PITs outweigh any risk factor, including the potential need to be outside and collect tablets during a release.

Diagram: PITs distribution and delivery process



1.4.3 Delivery of PITs to the public

When

The delivery of PITs to the public is a pre-planned countermeasure activated on declaration of OSNE. PITs are delivered as quickly as possible after the declaration of an off-site nuclear emergency, so that the public have the tablets before any potential release occurs. PITs are delivered to all domestic properties in the affected downwind zone. See Part 1 Chapter 1 of this plan for instructions on how to plot a plume map. GIS staff from the Local Authority can provide the road names inside the plume for public information - ask for a scale of 1:10,000.

PITs are delivered only when there is no confirmed hazard from radiation or release. Portsmouth City Council, Southampton City Council and Hampshire County Council have not sought the agreement of staff to undergo emergency procedures in accordance with REPPIR Section 14. If a radiation or release hazard occurs during a walk route then any deployed council personnel distributing PITs are to shelter immediately.

How

PITs are delivered to the public directly, through physical delivery to letter and mail boxes of residential properties by staff from Portsmouth City Council/Gosport Borough Council/MOD. The REPPIR area is divided into walk routes, and the exact walk routes to be used will depend on the predicted extent of the plume. The operational PITs Distribution Plans for Portsmouth and Southampton contain the detailed walk routes and supporting information.

Public information

A pre-scripted statement about delivery of PITs to residents is at **Part 2 and 3**, **Chapter 3** of the REACTOR EMERGENCY PLAN. The statement should be broadcast through all available news sources. The affected local authority is to set up a helpline for public advice on PITs.

1.4.4 Contingency and extendibility

Stocks of PITs are distributed to the following centres which can be opened as public collection points if required, for example if the walk route process is disrupted or the DEPZ is extended:

Portsmouth contingency centres	Southampton contingency centres
John Pounds Centre, Queen Street	St Joseph's Church Hall, Bugle Street
Portsmouth Anglican Cathedral, High	Orchard Lane Church Hall, Orchard Lane
Street, Old Portsmouth	
The Guildhall, Guildhall Square	James Street Church Hall, James Street
The Haven Salvation Army Centre, Lake	ATC H.Q., Hall of Aviation, Albert Road
Road	South
Gosport contingency centres	Woolston Community Centre, Church
	Road
Clarence Marina, Weevil Lane	St Patricks Church Hall, j/w Manor Road
	South/Portsmouth Road
Premier Marina, Mumby Road	Weston Church Hall, Weston Lane
HEDCA, Coombe Road	

In Portsmouth PITs tablets are held at St Mary's NHS walk-in centre for issue to patients who have arrived from, or are discharged to, areas affected by the incident. St Mary's is not a designated contingency distribution centre for issue to the public.

Distribution of PITs outside the planned REPPIR area walk routes can be achieved by the creation of ad hoc walk routes to deliver the tablets, or additional public collection points available at rest centres. The affected local authority may seek the help of other local authority/health staff in resourcing the distribution of PITs centres for a release predict ted to extend beyond the DEPZ.

If additional tablets are required:

HM Naval Base Portsmouth holds approximately 300K tablets.

 NHS Trusts, NHS Foundation Trusts and NHS England Regional Teams can access the national stockpile. Delivery information is at Annex B. The decision to request tablets from the national stockpile should be made in consultation with the Health Protection Consultant from the local PHE centre and the local DPH.

1.4.5 Recommended doses

The Department of Health recommends the following doses:

- Adults(including pregnant and women who are breastfeeding): 2 tablets
- Children aged three to twelve years: 1 tablet
- Children aged one month to three years: half of a tablet
- Birth to one month: quarter of a tablet

For children and infants the tablets can be crushed and taken with a drink. The dose is for a 24 hour period of cover and can be repeated.

The only people who should not take the tablets are those who know that they are allergic to iodine and those who suffer from the very rare conditions of hypocomplementaemic vasculitis or dermatitis herpetiformis. People who suffer from these conditions will have been told by their doctor.

If someone queries if they should take the tablet, and it cannot be resolved by reference to the health leaflet given with the tablets, then information should be sought the national NHS 111 number, TCG health team or STAC.

1.4.6 Actions on the decision to take PITs

The decision that the public need to take PITs is made by the SCG through the relevant Director of Public Health and STAC. The decision is based on a risk assessment that a release hazard is likely to occur, or confirmation from the MOD that a release hazard has taken place. The SCG (or TCG if SCG is not operating) will also advise the emergency services if emergency responders operating in an affected area should take PITs.

A pre-scripted statement advising the public to take PITs is at Part 2 and 3, Chapter 3 of the REACTOR EMERGENCY PLAN. The statement should be broadcast through all available news sources.

If circumstances warrant, it has been agreed by the Directors of Public Health in Portsmouth, Southampton and Hampshire that PITs can be issued and taken immediately.

1.4.7 Issue of PITs to the emergency services

Responders to the incident site in HM Naval Base Portsmouth / Eastern Docks Southampton

The MOD will issue PITs to emergency services personnel on entry at bronze or other designated entry point.

Responders to a contaminated area outside the HM Naval Base Portsmouth / Eastern Docks

PITs are held by the emergency services for issue to personnel who are required to enter a contaminated area outside the naval base. Responders are to collect PITs before deployment into the affected area from the following collection points:

Service	For response into	For response into	For response into
	Portsmouth	Gosport	Southampton
South Central	Portsmouth	Fareham (100	TCG City Depot, First
Ambulance Service	ambulance station,	tablets) and Gosport	Avenue,
	Eastern Road (100	(100 tablets)	Southampton (500
	tablets)	ambulance stations	tablets)
Hampshire Fire and	Cosham (250 tablets)	Fareham (250	
Rescue Service	and Southsea (250	tablets) and Gosport	
	tablets) fire stations	(250 tablets) fire	
		stations	
Hampshire	Portsmouth Central	Fareham Police	
Constabulary	Police Station (1000 tablets)	Station (1000 tablets)	

1.4.8 Post incident actions

The local authority PITs distribution team leader in Portsmouth should return remaining stocks of PITs to the Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team for return to the MOD.

In Southampton the PITs distribution team leader should return remaining stocks of PITs to the MOD ICC at Ocean Gate.

On the declaration of All Clear, STAC are to provide the public with advice on the disposal of any tablets they may have.

1.4.9 Letters of authorisation



David Williams
Chief Executive
Portsmouth City Council
Civic Offices
Guildhall Square
PORTSMOUTH
PO1 2AL

Director of Public Health

2nd Floor, Civic Offices Guildhall Square Portsmouth PO1 2AL

Phone: 023 9268 8700

21 June 2016

Dear David

REACTOR EMERGENCY PLAN FOR PORTSMOUTH AND SOUTHAMPTON PORTSMOUTH OPERATIONAL BERTH

In the event of a radiation emergency involving a nuclear powered submarine at the Portsmouth Operational Berth, responsibility for authorising distribution and consumption of Potassium lodate Tablets (PITs) to the public in the Pre-planned Countermeasures Zone (PCMZ) in the Portsmouth area rests with me as Director of Public Health, Portsmouth City Council.

In accordance with the Reactor Emergency Plan, the authorisation to distribute and then to consume PITs would be given by myself or my nominated deputy. However, in discussion with Public Health England (South East Office covering Hampshire and the Isle of Wight) and the Portsmouth and Southampton City Council Emergency Planning teams (who are responsible for writing and updating the Reactor Emergency Plan), it has been agreed that as a contingency, I will pre-authorise the issuing and consumption of these tablets only in circumstances that, I or my deputy, are not contactable.

Therefore, in relation to the Reactor Emergency Plan for Portsmouth and Southampton:

- I hereby authorise the issuing of Potassium lodate tablets to defined members of the public if an off-site nuclear emergency (OSNE) is declared. At this stage, the public will be advised not to take the tablets but to await further instructions.
- If a radiation hazard or release of radioactive material has been confirmed, I
 hereby authorise the issue of Potassium lodate Tablets to defined members of
 the public for immediate consumption.

Yours sincerely

Dr Janet Maxwell

Director of Public Health

Eur Masuren



Public Health Ell Court South Hampshire County Council Winchester SO23 8TG

Mr Ian Lycett
Chief Executive
Gosport Borough Council
Town Hall, High Street,
Gosport, Hampshire
PO12 1EB

Dear Mr Lycett

Re: Reactor Emergency Plan for Portsmouth and Southampton - Portsmouth Operational Berths

In the event of a radiation emergency involving a nuclear powered submarine at the Portsmouth Operational Berths, responsibility for authorising distribution and consumption of Potassium Iodate Tablets (PITs) to the public in the Pre-planned Countermeasures Zone (PCMZ) in the Gosport area rests with me as Director of Public Health, Hampshire County Council.

In accordance with the Reactor Emergency Plan, the authorisation to distribute and then to consume PITs would be given by myself or my nominated deputy. However, in discussion with Public Health England (South East Office covering Hampshire and the Isle of Wight) and the Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team (who are responsible for writing and updating the Reactor Emergency Plan), it has been agreed that as a contingency, I will pre-authorise the issuing and consumption of these tablets only in circumstances that, I or my deputy, are not contactable.

Therefore, in relation to the Reactor Emergency Plan for Portsmouth and Southampton:

- 1. I hereby authorise the issuing of Potassium Iodate tablets to defined members of the public if an Off-Site Nuclear Emergency (OSNE) is declared. At this stage, the public will be advised not to take the tablets but to await further instructions.
- 2. If a radiation hazard or release of radioactive material has been confirmed, I hereby authorise the issue of Potassium Iodate Tablets to defined members of the public for immediate consumption.

Yours sincerely

Dr Sallie Bacon

Director of Public Health

Hampshire County Council

Part 1 Chapter 5 Agency Roles and Responsibilities

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1.5 Agency roles and responsibilities

1.5.1 Local authorities

- Coordination of council response and resources
- Support to the emergency services
- Activation of emergency public health (advice to shelter, distribution of PITs as per site specific arrangements)
- Provision of Public Health Liaison Officer to TCG
- Operation of rest centres, including transport to the centres
- Emergency welfare support for evacuees and, where practicable, those remaining in their homes
- Support and advice to vulnerable people
- Provision of liaison officers to Bronze, TCG and SCG and other designated locations
- Environmental and waste management advice
- Coordination of voluntary agency activity
- Provision of public advice and emergency helpline
- Provision of mutual aid to neighbouring local authorities
- Provision of temporary mortuary if required
- Lead and co-ordination of clean-up and recovery activity
- Provision of longer term humanitarian assistance to those affected by the incident.

1.5.2 Royal Navy Off-Site Nuclear Emergency Response

Organisation

- To initiate and control the emergency procedures and actions in the event of a nuclear accident at the designated Operational Berths
- To protect the public and mitigate the consequences of an accident
- To provide personnel in support of off-site activities:
 - Emergency Monitoring HQ

- Emergency Monitoring Team
- Tactical Military Coordinating Authority
- Strategic Military Coordinating Authority
- PITs distribution to the public via local authorities
- Public warning, informing and media

1.5.3 Hampshire Constabulary

- Initial accident notification of civilian agencies in response to an accident alert
- Saving life in co-operation with other emergency services
- Co-ordination of Hampshire Constabulary response and resources
- Co-ordination of multi-agency response, including chair of TCG and SCG as decided by the Duty Police Gold Commander.
- Determination of hazard exposure limits for Hampshire Constabulary staff
- Assisting with public warning and informing
- Evacuation planning and implementation with partners
- Maintenance of public order and, as far as practicable, the security of empty properties
- Response to road and traffic issues
- Primary responsibility for recovery of the dead and identification of victims on behalf of HM Coroner
- Collection and dissemination of casualty information
- Protecting and preserving the scene
- Investigating the incident in conjunction with other investigate bodies

1.5.4 Hampshire Fire and Rescue Service

- Co-ordination of Hampshire Fire and Rescue Service response and resources
- Provision of liaison officers to Bronze, TCG, SCG and other designated locations
- Internal cascade alerting of accident notification

- Lifesaving operations
- Responding to all emergency incidents as required
- Determination of hazard exposure limits for HFRS staff
- Assisting the community where a need is identified and the use of the fire service personnel and equipment is appropriate and practicable.

1.5.5 South Central Ambulance Service

- Co-ordination of South Central Ambulance Service NHS response and resources
- Provision of liaison officers to Bronze, TCG, SCG and other designated locations
- External cascade alerting of accident notification to other NHS agencies as per the REACTOR EMERGENCY PLAN
- Initial treatment and evacuation of casualties
- Management of hospital access plan
- Determination of hazard exposure limits for SCAS staff
- Establishment of Casualty Clearing Station and Ambulance Loading Point if required
- Deployment of Medical Incident Officer and additional resources if required
- Assistance with the transportation of medically vulnerable people if capacity available

1.5.6 NHS England - South (Wessex)

- Coordination of NHS response and resources
- Provision of liaison officers to TCG and SCG and other designated locations
- Provide capacity management coordination across all acute provider trusts in Wessex, and where capacity is required beyond Wessex, to escalate to NHS England - South region for coordination

1.5.7 Receiving hospitals

- Receive and treat casualties
- Review planning to create capacity as required
- Provision of mortuary facilities as required

1.5.8 Public Health England

- Co-ordination of Public Health England response and resources
- Provision of Consultant in Health Protection from PHE as STAC chair
- Provision of Public Health England Centre for Radiation, Chemical and Environmental Hazards specialist to SCG meetings
- Provision of liaison officers to TCG, SCG and other designated locations
- Provision of health risk assessments
- Provision of public health advice and control measures
- Provision of advice to health professionals, other agencies and the public in monitoring long-term effects of an accident
- Preparation of strategic monitoring strategy for people and the environment
- Deployment of radiation monitoring personnel

1.5.9 Environment Agency

- Co-ordination of Environment Agency response and resources
- Provision of liaison officers to SCG and other designated locations
- Advice to public, other government departments and agencies, businesses and partner organisations on pollution and contamination issues
- Liaison and advice on impact on vulnerable and conservation areas
- Assistance and advice to local authorities with clean-up and restoration activities

1.5.10 Food Standards Agency

- Co-ordination of Food Standards Agency response and resources
- Provision of liaison officers to SCG and other designated locations
- Advice on potential contamination of food stuffs and impact of accident on food chain
- Advice on the safe disposal of contaminated food
- Enforcement of any countermeasures required for food safety

1.5.11 Maritime and Coastguard Agency

- Co-ordination of Maritime and Coastguard Agency response and resources
- Support to emergency services and local authority
- Provision of liaison officers to SCG and other designated locations

1.5.12 Office for Nuclear Regulation

- Deploy inspectors to the affected site's emergency facilities and to the appropriate off-site facility (OSF) who will monitor the situation and steps taken to restore control
- Provide independent advice and support to the SCG through the STAC, on the technical prognosis of the emergency and health protection aspects
- Set up Incident Suite at Redgrave Court Bootle (RCIS to provide technical assessment capability and to support the Senior Nuclear Inspector, the ONR inspectors on site and at the OSF
- Make independent assessments of the likely course of the accident, its consequences and consider implications for other nuclear sites
- Submit routine reports on events at site through the RCIS
- Deploy a Senior Nuclear Inspector, normally an ONR Deputy Chief Inspector, to MOD HQ Whitehall to act as advisor to central government.

Part 1 Chapter 6 Recovery and Remediation

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1.6 Recovery and remediation

1.6.1 Introduction

Emergencies disrupt communities and create a range of physical, psychological and economic issues that outlast the immediate response operation. Recovery is an integral element of emergency management and whist it is distinct from incident response, it is a complementary and concurrent activity. The recovery phase is the period when less urgent countermeasures are implemented to protect the public from longer term, chronic risks.

Recovery may be more than the simple replacement of what has been destroyed and the rehabilitation of those affected. The aftermath of an emergency can present the opportunity to regenerate a community or location. Recovery activity may be the initial steps towards longer- term and more ambitious regeneration projects.

The Local Authority will usually lead the recovery process, unless the specific consequences of the emergency means another agency may assume responsibility.

The **National Recovery Guidance** provides comprehensive generic advice on dealing with the recovery phase of an emergency. Other plans and guidance include:

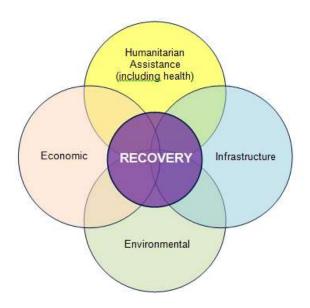
- Public Health England UK Recovery Handbook for Radiation Incidents.
- Portsmouth City Council and Southampton City Council's Emergency Response Plan
- Hampshire County Council's Community Recovery Plan
- Hampshire and Isle of Wight LRF Community Recovery Plan

This section contains a summary of the main recovery structures and tasks. Officers involved in recovery activity should refer to the references.

1.6.2 Purpose of recovery

The purpose of providing recovery support is to assist the affected community towards the management of its own recovery. It recognises that when a community experiences an emergency, there is a need to supplement the personal, family and community structures that have been disrupted.

There are 4 components of recovery:

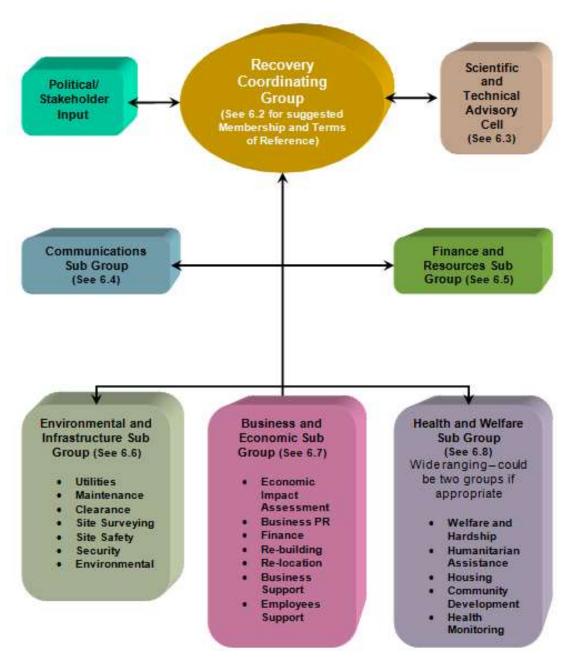


1.6.3 Activation of the Recovery Co-ordination Group

- The Local Authority will activate the Recovery Co-ordination Group (RCG), normally at the request of the SCG. It needs to form as early as possible in order to ensure decisions made by the SCG do not compromise long term recovery.
- The Chair of the RCG, or nominated deputy, needs to sit on the SCG to aid joint working and the flow of information.
- A suggested agenda for the first meeting of the Recovery Co-ordinating
 Group is in the HIOW LRF Community Recovery Plan.
- In the early stages of the recovery phase when the SCG and RCG are running in parallel it should be possible for the two groups to be co-located.

Once the response phase is complete and the operational SCG has stood down, then the Local Authority may need to find an alternative location to ensure the continuity of recovery activity during this second period.

 The RCG may have several sub-groups working on specific aspects of recovery activity. Potential groups are as follows:



Extract from the HIOW LRF Community Recovery Plan

1.6.4 Membership of Recovery Coordination Group¹

Portsmouth incident	Southampton incident
Portsmouth City Council	Southampton City Council;
Fareham Borough Council	New Forest District Council;
Gosport Borough Council	Hampshire County Council;
Havant Borough Council	• NHS
Hampshire County Council	HIOW & Dorset Public Health
• NHS	England Centre
Public Health England (C)	Public Health England CRCE
Public Health England CRCE	Environment Agency
Environment Agency	Department for Environment
Food Standards Agency	Food & Rural Affairs (DEFRA)
Department of Environment,	 Food Standards Agency (FSA)
Food, Rural Affairs.	Southern Water
Portsmouth Water Company	 MoD/Portsmouth Naval Base
Southern Water	 Associated British Ports (ABP)
MOD/HM Naval Base	Other agencies as appropriate.
Portsmouth	
Other agencies as	
appropriate	

1.6.5 Recovery strategy

Effective recovery activity requires a clear and agreed strategy. Suggested **objectives** include:

- Produce an Impact Assessment and update on a regular basis
- Produce a concise, balanced and affordable Action Plan
- Bring utilities and transport networks back into use as soon as possible
- Involve and work with the affected community

¹ The list is illustrative: other agencies may be required

- Produce a pro-active and integrated framework of support to businesses
- Set agreed standards for levels of restoration
- Co-ordinate environmental protection and recovery issues
- Produce a co-ordinated public information and media management strategy
- Set protocols for political involvement and liaison

1.6.6 Recovery targets

The recovery strategy should also include agreed targets so progress can be measured and reviewed. Suggested **milestones** include:

- Displaced people returned to permanent accommodation
- Public services returned to agreed levels
- Utilities functioning at normal capacity
- Transport infrastructure available and running normally
- Local businesses trading at normal levels
- Tourism re-established

1.6.7 Priorities

The RCG will agree priority sites for restoration and clean-up activity. These will include:

- Residential properties
- Nurseries, schools and colleges
- Key utility sites
- Roads
- Transport infrastructure
- Key economic facilities
- Environment and conservation sites

1.6.8 Risk assessment

The need for clean-up activity is based on the potential of exposure in the aftermath of an accident from:

- External irradiation from radioactive material deposited in the environment
- Inhalation of re-suspended radioactive material
- Ingestion of contaminated foods

1.6.9 Reinstatement of pre-accident conditions

It is a general principle that recovery activity seeks to reinstate pre-accident conditions. Where contamination from a nuclear reactor accident occurs over a wide area the removal of all detectable radiation may not be possible without significant and intrusive changes to infrastructure and landscape. Reinstatement to pre-accident conditions may not be a practicable option. The recovery strategy should include effective communication and consultation with affected the public to ensure people are aware of constraints, options and actions.

1.6.10 Recovery Countermeasures

Decontamination measures

Decontamination reduces exposure by treating contaminated areas directly. Techniques include removing contaminated materials from the area and redistributing or fixing radionuclides so that they are less available to contribute to exposure.

- Removal of contaminated soils or surfaces reduces the exposure of those living in a contaminated area, but results in contaminated waste for which an appropriate disposal route has to be found.
- Redistribution or fixing of the contamination avoids waste disposal problems, but leaves the contamination in situ, as a potential long-term hazard.

Restricted access measures

Restricted access measures reduce exposures by removing people from areas of contamination, or by controlling the time spent in such areas. Such measures may range from preventing or limiting access to localised contaminated areas (e.g., the site of the accident, or recognised hot spots), to relocation of the resident

population from, and prohibition of all access to, an area for weeks, months, or even years, until general exposure levels have reduced to acceptable levels.

Dose effectiveness

The effectiveness of remedial action on infrastructure and landscape is measured as the reduction achieved in the overall exposure from deposited gamma-emitting material. The reduction is expressed as dose effectiveness. The actual dose effectiveness of a particular intervention depends on factors such as weather conditions following release and the half-life of the radioactive material involved. Measures are categorised as:

- Category A: moderately dose effective, incur relatively little disruption and can be completed soon after the accident
- Category B: More strongly dose effective, incur significant disruption and/or resources or can only be carried out over protracted periods
- Category C: Poorly or moderately dose effective, and incur significant resources and/or disruption.

The table is a guide to possible interventions and their impact:

Countermeasure categories, techniques and effectiveness

Category	Impact on public	Technique	Dose Effectiveness
A Moderately	Incurs little disruptionRequires low level of resources	Ploughing large areas of grass (e.g., playing fields, parks).	20 to 40%
effective	Generally completed within the first month following the end of a release	Extended evacuation; short lived radionuclides Vacuum sweeping - all metalled surfaces.	20 to 40% 20 to 40%
	Once completed, minimal ongoing disruption	Fire hosing - all metal surfaces	20 to 40%
		Grass cutting and removal - public and private areas.	20 to 40%
		Temporary relocation for 1 month.	30 to 60%/20 to 40% <10%
B Strongly	Significant disruptionSubstantial resources required	Turf removal and replacement - public and private areas	30 to 60%
effective	Take a protracted time, difficult to complete within the first month of remediation activity	Rotovating all soil/gross areas (assumes all shrubs and plants removed and replaced).	30 to 60%
	Continue to cause disruption once completed	Double digging all soil/grassed areas (assumes all shrubs and plants removed and replaced).	30 to 60%
		Turf and soil removal and replacement - all soil/grass areas (assumes all shrubs and plants removed and replaced).	30 to 60%

		Road planning and replacement	30 to 60%/20 to 40%
		Prolonged or permanent relocation	30 to 60%
С	Significant disruption Substantial resources required.	Fire hosing buildings	<10%
Poorly effective	Substantial resources requiredNot normally justified on radiological	Sandblasting walls	<10%
	protection grounds	Tree felling/plant and shrub removal and replacement	20 to 40%
	Used when circumstances of the	Stipple coating - metalled surfaced and buildings	<10%
	accident prevent other, less resource-intensive countermeasures	Ammonium treatment of buildings	<10%
	being implemented, or for reasons other than dose reduction such as	Roof replacement	<10%
	public reassurance.	Cleaning of indoor surfaces	<10%

Annex A: Template: off-site countermeasures advice for public protection (SCG)

Off-site countermeasures advice for public protection						
Advice serial number	Da	ate issued	1	/	dd/mm/yyyy format	
	Ti	ime issued		:	24 hour format	
Incident type OSNE/Radiation hazard confirmed/Release of radioactive material confirmed						
Time declared :	24 hour	Date declare	ed	1	dd/mm/yyyy format	
Location of berth		Advice issu	ed by	Ope	rator/STAC	
Weather conditions	Current wind direction is from degrees					
	Rain/no rain/snow/sleet/hail					
	Forecast wind direction is from	m degrees	, forecas	st chanç	ge to occur at	
	Rain/no rain/snow/sleet/hail fo	recast at (insert	: date an	nd time)		
Current release (delete as appropriate)						
 There has not been any radioactivity released from the site. The general public are not at risk and do not need to take precautions There has been radioactivity released from the site, countermeasures are recommended 						
Urgent countermeasures	Shelter in downwind plume or	ut to a	1.5kms	s (auton	natic action at OSNE)	

distance of:

Signed	Name	Role			
Prognosis for the next 12 nours from time of this advice					
	This advice is issued on a precautionary basis/plant status/perimeter monitoring/off site monitoring				
	Other				
		Other distance:			
	Evacuate downwind zone out to a distance of:	Other distance : 1.5kms (DEPZ planning distance)			
	Advise public to take PITs in downwind zone out to a distance of:	Other distance: 1.5kms (DEPZ planning distance)			
	diotarios of.				
	Deliver PITs in downwind plume out to a distance of:	1.5kms (automatic action at OSNE)			
recommended		Other distance:			

Annex B: National potassium iodate stockpile: Instructions for receiving deliveries

INFORMATION ON POTASSIUM IODATE/IODIDE DELIVERIES - READ THIS SIDE FIRST

This two page document provides information for staff involved in the distribution of potassium iodate/ iodide to members of the public following a radiation release. On the reverse of this page you will find pictures to support the information provided below.

What you will receive

Within the next 5 to 10 hours you will receive packs of potassium iodate/iodide (PI). These packs will be loaded on a wooden pallet that measures 1m by 1.2m. For each delivery the pallet and its contents will rise to 1.3m high and will weigh approximately 261 kilos. The pallet will hold sufficient PI to treat 180,000 adults. Accompanying the medicine will be a pallet of PHE information leaflets for distribution with the medicine, which includes information on the requirements for children. The two pallets will be delivered on an 18 tonne vehicle (that is approximately 10m long and 2.5m wide). The truck will have a tail lift mechanism to get the stock to floor level, but you will need to move the stock from the truck into your distribution facility.

The stock does not need to be refrigerated – it should be stored at temperatures between 2c and 25c.The pallet of PI will contain 30 boxes that each weigh 8kg. The boxes will contain 120 packs of PI. Each pack will contain 10 strips/sleeves of 10 tablets, making a total of 100 tablets per pack (sufficient to treat 50 adults). The strips/sleeves are perforated so that they can be torn off in twos without the need for scissors. IODIDE tablets can be further torn into singles, but IODATE will require scissors for singles.

Distributing the medicine

Each adult patient (ie. 12 years and over) should be handed two tablets, which is a full treatment course. Each child aged below 12 should receive a single tablet. The tablets themselves are scored so as to enable them to be broken into halves or quarters by the adult receiving the tablet, depending on the dose required by the child. The PHE information leaflet provides details on dosage.

Each adult should be handed a PHE information leaflet to cover each household the PI is destined for. The <u>pallet of PHE information leaflets</u> will hold 60 boxes that each weigh 10kg. Each box will contain 3,000 leaflets. In addition you should print off the latest manufacturer's Patient Information Leaflet (PIL) and hand a copy to each adult for a household. The pallet and its contents will rise to 1.3m high and will weigh approximately 620 kilos.

What equipment you need

You will need to be able to move the pallets or their contents into your distribution facility. To move the pallets you will need a pump truck, or alternatively you will need to carry the boxes individually from the pallets. You will need scissors for cutting IODATE strips to distribute single tablets for children.

You will also need internet access and printing facilities to get the latest version of the manufacturer's Patient Information Leaflet. The Patient Information Leaflet for IODATE is at: http://www.medicines.org.uk/emc/medicine/27528/PIL/ThySat+65+mg+tablets/. The Patient Information Leaflet for IODIDE is at. http://www.medicines.org.uk/emc/medicine/27528/PIL/ThySat+65+mg+tablets/.

It is important that the Manufacturer's PIL is provided but if you are unable to access the link and this will result in delays the stock may be issued with just the PHE information leaflet that came on the pallet.

POTASSIUM IODATE DISTRIBUTION

Potassium Iodate Tablet 85mg

Potassium Iodate Leaflets

All areas should expect the delivery to be via a 18t vehicle, this will be fitted with a tail lift to enable the offloading of the pallet.



A pump truck may be required to move the pallet from the drop off point.



All pallets will be delivered shrink wrapped and may require a knife to assist in its removal.



The initial delivery will comprise of 1 pallet (30 boxes) containing sufficient Potassium lodate tablets to treat 180,000 adults. The pallet configuration of subsequent deliveries may vary based on individual site requirements.



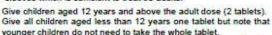
You will receive 1 pallet with 30 boxes each containing 120 Packs of tablets.

Each box will contain sufficient Potassium lodate 85mg tablets to treat 6,000 adults.

Pallet size: Width 100cm Length 120cm

Maximum Height 220cm Pallet weight will be 261kg (maximum full pallet weight) Weight of each box will be 8kg

A pack of 100 Potassium lodate 85mg tablets contains 10 sleeves which is sufficient to treat 50 adults.



- Children from 3 years to less than 12 years should take one tablet.
- Children aged from 1 month to less than 3 years should take half a tablet.
- Children from birth to less than 1 month of age should take a quarter of a tablet.

Tell the parent or carer to read the information leaflet.



Each sleeve within a pack is perforated to enable 2 Potassium lodate tablets to be dispensed to each patient and is sufficient to treat 5 adults.

Note

Each sleeve within the pack is perforated, so can be torn without the need for scissors. The initial delivery will comprise of 1 pallet (60) boxes containing sufficient Potassium Iodate Leaflets for 180,000 adults. The pallet configuration of subsequent deliveries may vary based on individual site requirements.



You will receive 1 pallet with 60 boxes each containing 3,000 Potassium lodate leaflets.

Pallet size: Width 100cm Length 120cm Maximum Height 220cm Pallet weight: 621kg (maximum full pallet weight)

Weight of each box: 10kg



One leaflet to be supplied per treatment.

Note:

If multiple treatments are given to the same household only one leaflet is required.

Note: This is an ambient product and is to be stored between 2c - 25c

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2.1 Plan activation

2.1.1 Preparatory actions for visits of nuclear powered vessels MOD

- Notify Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team of a visit at least 24 hours before.
- Issue PITs to Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team for pre-distribution to selected centres, schools, nurseries and educational establishments.

Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team

 Notify external agencies of visit dates, who will implement appropriate arrangements for their organisations:

Hampshire	Contingency Planning Officer
Constabulary	
Hampshire County	Head of Emergency Planning
Council	Emergency Planning Duty Officer
	Director of Public Health
Gosport Borough	Emergency Planning Officer
Council	
South Central	Head of Emergency Planning
Ambulance Service	
Hampshire Fire and	HQ Contingency Planning Officer
Rescue Service	Group Manager Portsmouth
NHS England - South	Head of EPPR
(Wessex)	
Environment Agency	Incident Room Solent
Office for Nuclear	Principal site inspector
Regulation	

Notify internal officers of visit dates:

- Corporate Communications
- Duty Executive and City Contact Officers for the period of the visit
- Director of Public Health
- Director Regulatory Services, Community Safety and Troubled Families
- Chief Executive
- Distribute PITs to selected centres, schools, nurseries and educational establishments (see Part 1 Chapter 4).
- Test the direct telephone line between Conference Room A, Civic Offices, and the Incident Commanders Cell, HM Naval Base.

2.1.2 Standby arrangements during visits of nuclear powered vessels

The MOD Nuclear Emergency Response Organisation will be at levels of notice to respond to an Off-Site Nuclear Emergency on an NPV and provide support to the civilian authorities if required. Details of the organisation and notice arrangements are contained in the MOD's on-site plan, PORTNUSAFE.

Local civilian responder organisations will maintain their normal state of readiness.

2.1.3 Notification of an Off-Site Nuclear Emergency to external agencies

- In the event of an Off-Site Nuclear Emergency the Commanding Officer of the vessel will declare an Off-Site Nuclear Emergency to Harbour Control, Queen's Harbour Master.
- Harbour Control will inform the Ministry of Defence Police at Unicorn Gate that an Off-Site Nuclear Emergency has occurred.
- The Ministry of Defence Police will inform Hampshire Constabulary Force Control Room that an Off-Site Nuclear Emergency has been declared. The message format will be:

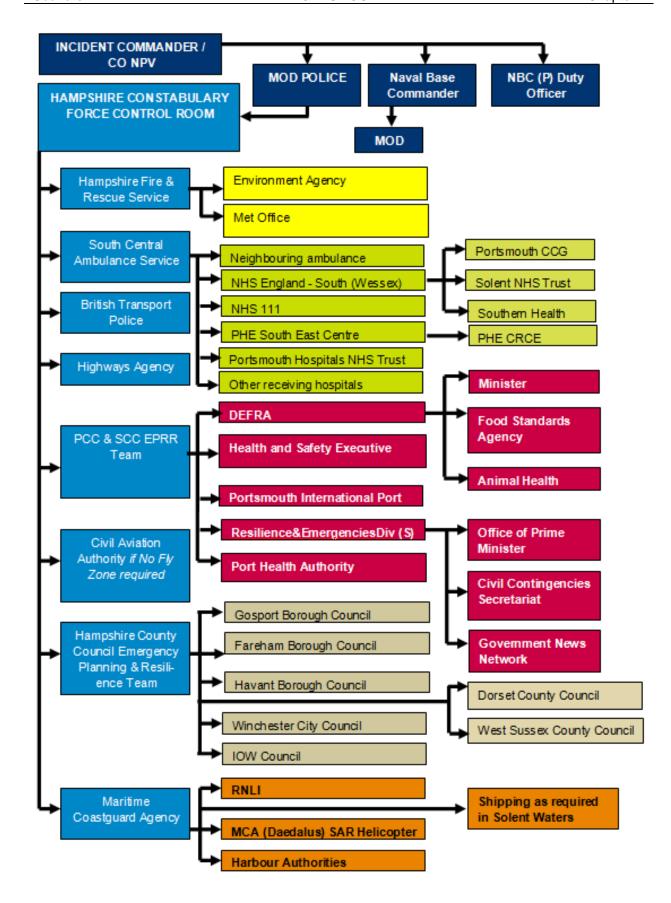
OFF SITE OFF-SITE NUCLEAR EMERGENCY
NAME OF VESSEL
TYPE OF VESSEL
LOCATION OF VESSEL

PREVAILING WEATHER CONDITIONS

- Hampshire Constabulary Force Control Room will notify civil authorities through the cascade alerting system that an Off-Site Nuclear Emergency has been declared.
- On receipt of the declaration of an Off-Site Nuclear Emergency, civilian agencies are to implement their REACTOR EMERGENCY PLAN response actions, including their cascade alerting responsibilities.

2.1.4 Cascade alerting system

The cascade alerting system allows the quick communication of the accident notification to multiple agencies. The system is represented in the following diagram. See **Part 2 Chapter 9** for the protected version with telephone numbers.



2.1.5 Notification of radiation and release hazards

Following the declaration of an OSNE, the MOD will advise the SCG (or TCG if SCG not operating) when:

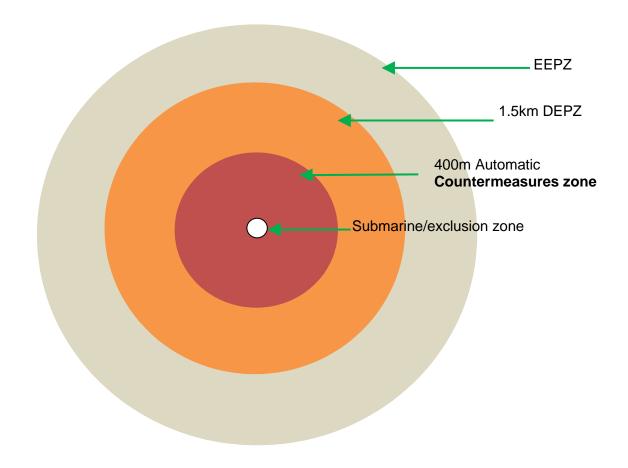
- A radiation hazard is confirmed
- A release of radioactive material confirmed.

On each change of condition the STAC is to review the public health impact and issue an off-site countermeasures advice for public protection (**Part 1 Annex A**).

2.1.6 Notification of end of off-site nuclear emergency

The MOD will advise the SCG (or TCG if SCG is not operating) when the Off-Site Nuclear Emergency no longer presents a hazard to the public. The SCG will then consider when the transition to the recovery phase can be made.

2.1.7 Reactor accident planning zones



2.1.8 Command and control

In response to an off-site nuclear emergency, civilian responders implement an integrated management organisation, detailed in the HIOW LRF's **Emergency Response Arrangements**. Participants at each level are nominally identified as:

The Operational Level (Bronze)

- Incident commander (MOD)
- MOD technical adviser
- MOD medical adviser
- MOD health physics adviser
- MOD mobile emergency monitoring HQ

- MDP liaison officer
- Police liaison officer
- Hampshire Fire and Rescue Service liaison officer
- South Central Ambulance Service liaison officer
- Portsmouth City Council liaison officer
- Gosport Borough Council liaison officer

The Tactical Level

- TCG chair (Hampshire Constabulary)
- Hampshire Constabulary tactical officers
- Hampshire Fire and Rescue Service tactical officers
- South Central Ambulance Service tactical officers
- Environment Agency (Tactical Liaison Officer)
- Tactical Public Health Consultant
- NHS representative Portsmouth CCG (senior manager)
- Portsmouth City Council senior executive
- Commercial port representative (if port operations affected)
- Gosport Borough Council senior officer or Local Authority Liaison Officer
- Hampshire County Council EPU officers
- Tactical military coordinating authority
- Communications and media officers

The Strategic Level

- SCG chair (Hampshire Constabulary, usually Duty Police Gold Commander)
- Hampshire Constabulary strategic officers
- Hampshire Fire and Rescue Service strategic officers

- South Central Ambulance Service strategic officers
- Portsmouth City Council Chief Executive
- Gosport Borough Council Chief Executive
- Hampshire County Council CEPO
- NHS England South (Wessex) Incident Director
- Maritime and Coastguard Agency
- RED liaison officer
- Scientific and Technical Advice Cell chair
- Public Health England CRCE senior representative
- Strategic military coordinating authority
- Environment Agency
- Food Standards Agency
- Office for Nuclear Regulation
- HIOW LRF communications and media cell

2.1.9 SCG/TCG agendas and meeting notes

Chairs of the TCG and SCG should use the agendas at **Chapter 5** taken from HIOW LRF Emergency Response Arrangements. Meeting notes/actions should be recorded and published on ResilienceDirect.

2.1.10 Information displays

The Multi-Agency Information Cell in the SCC is to co-ordinate the provision of information to the SCG and TCG. This is to include maps (created by the GIS cell) showing:

- Areas in shelter
- PITs distribution areas
- Extendibility areas

Mapping should be published electronically on ResilienceDirect so that the information can be accessed remotely from each working area of the SGC and TCG. In addition the maps are to be printed and displayed in a prominent and accessible part of the SCG together with a state board detailing actions and common operating pictures.

Maps and incident information in the TCG are to be displayed on a white board and maintained by police staff supporting the TCG chair. PCC GIS team can provide maps.

2.1.11 Resourcing the response

As with all incidents, responders are responsible for ensuring they provide the necessary personnel, facilities and equipment to support their responsibilities in the plan. This includes standard practices such as the nomination of deputies, implementation of business continuity plans, maintenance of cascade callout lists and requesting mutual aid. If facilities routinely used for the response are not available then the owning agency will identify other suitable venues and advise the TCG/SCG.

The SCG will determine priorities for action and resource allocation if an Off-Site Nuclear Emergency is declared during another significant and unrelated incident (for example, severe weather). In all cases the potential impact on immediate and long term public safety will be the determining factor in deciding priorities.

2.1.12 Initial public protection actions

The initial actions taken by individual civilian responding agencies are listed at **Part 2 Chapter 2** of this plan. Immediate public protection measures are:

HM Naval Base

- Controlled evacuation of the immediate area around the berth. No members of the public are expected to be in this area. Detailed information is contained in the on-site plan and the MOD is responsible for the process.
- Instruction to shelter indoors for personnel within 400m (all directions) of the berth in order to protect against direct gamma radiation. No members of the

public are expected to be in this area. Detailed information is contained in the on-site plan and the MOD is responsible for the process.

• Closure of the heritage area (also known as the Historic Dockyard) and evacuation of the public.

Civilian area of the DEPZ

The 1.5km zone is a planning figure for initial actions. The exact extent of the release may be less than this distance or exceed it. In addition, the risk will be greater nearer to the source and reduce further away. Mitigation measures to protect the public therefore need to be assessed against the evidence of contamination and deposition as the accident progresses to ensure a proportionate response. Responders need to implement a monitoring strategy as soon as possible to support risk assessments.

Shelter Initial advice to the public within the DEPZ is to shelter indoors to protect against the possibility of a release of radioactive material. In the event of an off-site nuclear emergency, staying indoors with windows and doors closed is a key public health message. Supporting individuals in homes, businesses and schools presents a number of challenges in a prolonged incident. The SCG/TCG will need to consider intervention plans for:

- The potential distribution of food and welfare supplies to sheltering residents,
 workers, visitors, education establishments and closed communities
- Consider advising retail, commercial and industrial properties in the downwind zone to close and evacuate until the emergency is over. This may include Cascades, Gunwharf Quays, commercial areas around the naval base and Gosport High Street
- Specialist needs for more vulnerable people who require support such medication, essential care and meals on wheels
- Non-related accidents, serious illness and emergency protection interventions
 which require people to be removed from their shelter location

Local authorities should consider setting up a rest centre outside the zone on declaration of OSNE. This will provide immediate shelter if evacuation is required at an early stage, and also accommodate people who left the area before the accident occurred and cannot return.

The effectiveness of sheltering as a countermeasure reduces over time, as no structure is completely airtight. This means that when the shelter posture is lifted buildings need to be ventilated.

Potassium lodate tablets On behalf of the MOD the local authority issues PITs to the public in the downwind zone in order to protect against an uptake of radioactive iodine in the thyroid. Delivery of PITs is an automatic action on declaration of an off-site nuclear emergency. As an initial action the SCG should consider if a wider distribution is required, especially if the wind direction is likely to change within the next few hours.

The decision that the public need to take PITs is made by the SCG through the relevant Director of Public Health and STAC. The decision is based on a risk assessment that a release hazard is likely to occur, or confirmation from the MOD that a release hazard has taken place and that SSILs have been reached. The MOD provides the technical information to support the risk assessment process. See **Part 1 Chapter 4** for the PITs distribution process.

Evacuation The decision to evacuate the affected downwind area from the release site is based on an assessment of risk to public health from the release, and will be authorised by the SCG and managed by the TCG. Planning guidance can be found in:

- HIOW LRF Mass Evacuation and Shelter Guidance
- Portsmouth City Council's Evacuation Guidance
- Gosport Borough Council's Emergency Response Plan
- Hampshire County Councils' Major Incident Plan and Community Recovery Plan
- Police Strategic Guidance on the Management of CBRN Events

Police National Guidance on the Decontamination of People.

Other considerations

- Closure of the harbour area may affect the Gosport and Isle of Wight ferry services.
- Consider impact on operations in Portsmouth International Port. It may be
 necessary to stop sailings if the wind direction indicates the port will be
 affected. Actions could include the re-routing of inbound sailings to an
 alternative port, clearing ships and passengers from the port, communicating
 information to those intending to sail, creating safe holding areas for outbound
 freight and passengers.
- Determine policy for staff based or working in the affected area.
- Determine policy for emergency interventions in the affected area i.e. response to 999 calls, public protection issues, meals and wheels, care visits.

Next steps

Subsequent actions after the immediate countermeasures will be determined by risk assessment in light of scientific, technical and health advice provided to the SCG by the strategic military co-ordinating authority, STAC and other responding agencies.

2.1.13 Personal protective equipment for responders

The decision about the level of equipment required for responding emergency services personnel is based on dynamic risk assessments by individual agency commanders and their respective radiation protection advisors. It is important that the SCG develops a coherent strategy for use of PPE in public areas, with clear explanations in public communications as to why personnel may be wearing PPE.

2.1.14 Weather information

The Portsmouth City Council and Southampton City Council Emergency Preparedness, Resilience and Response Team are responsible for obtaining initial and updated weather information through the Met Office Environment Monitoring And Response Centre (EMARC) on 01392 886095 (24 hour service). The Strategic Coordination Centre GIS Cell is responsible for providing updates once the cell has been established.

2.1.15 Access to the Naval Base

Access to HM Naval Base Portsmouth will be through Trafalgar Gate. The MOD will advise responders of alternative access points if Trafalgar Gate not useable. All emergency services personnel entering the HM Naval Base Portsmouth will be issued with PITs as required.

The MOD will provide safety briefings and entry control to all responders working in the base area. Processes for the reception and identification of civilian emergency services responders are detailed in the MOD's PORTNUSAFE Plan. Civilian emergency responders are met and briefed at Trafalgar Gate and escorted to a holding area. If subsequently required to intervene their access is managed through the Exclusion Zone Reception Centre where they will be advised of other personnel working in the area.

Civilian emergency services responders will be in uniform with JESIP tabards and carry photographic ID.

2.1.16 Portsmouth Historic Dockyard

The Heritage Area of the Naval Base is open to the public every day except Christmas Eve, Christmas Day and Boxing Day, between 1000-1800hrs. In addition, there is a cinema, No 6, which opens to the public several evenings a week. The Heritage Area is outside the Automatic Countermeasures Zone but is in the DEPZ. In the event of an Off-Site Nuclear Emergency the area will be closed immediately and visitors cleared from the site by the MOD Guard Service and MDP.

2.1.17 Off-site traffic management

The TCG, in conjunction with the local authority, will put in place a traffic management plan covering:

- Access and egress routes to the incident site and the surrounding areas
- Access routes to hospitals
- Off-site rendezvous points
- Marshalling area and holding points
- Alternative routes

A decision by the naval base to evacuate non-essential personnel will have a significant impact on the road network around the base, especially the M275 and approach roads to the base. Traffic management will be required to ensure the potential for gridlock is minimised.

2.1.18 Cordons and Strategic Holding Areas

The naval base is responsible for managing on-site inner and outer cordons.

The TCG, in conjunction with the local authority, will manage any cordons required for the safe management of the incident outside the base, including:

- Traffic cordons: to prevent unauthorised vehicle access to the area and aid emergency service access/egress
- Evacuation cordons: to aid safe evacuation and prevent unauthorised access to the evacuated area

The Police CBRN commander will determine the deployment of CBRN trained officers at off-site cordons, and detection and monitoring arrangements. CBRN officers are equipped with PPE and Radiation Detector Pagers, and the force has access to 2 Ram Gene units to measure dose rates and contamination.

HIOW LRF Emergency Response Arrangements contains details of pre-identified Strategic Holding Areas.

2.1.19 Harbour, rail and air movements

The SCG (or TCG if the severity of the accident demands immediate action) is to consider the options regarding rail and air movements. Any decisions to close or restrict harbour and train movements or request an air exclusion zone will take into account:

- Risk closure will prevent additional personnel entering the affected area and exposing themselves to potential harm. Less traffic in the harbour will allow responders better access to the accident area.
- Benefit keeping transport networks open may assist in a wider scale evacuation and aid return to normality.

The Queen's Harbour Master (QHM) is responsible for restricting movements in the harbour and closing it to shipping. In general the harbour and access lanes will be closed if the direction of plume presents a hazard in those areas. QHM will notify the TCG/SCG, other agencies and shipping of restricted movements as per normal procedures. An initial general direction to shipping would be issued via VHF and every 15 minutes thereafter. A Local Notice to Mariners would be issued and published on the harbour website, faxed to Portsmouth International Port and other commercial companies. The harbour closure will initially be enforced by MOD Police.

2.1.20 Adjacent hazardous sites

There are no other REPPIR sites in the DEPZ or EEPZ.

There is one adjacent MACR site, Defence Munitions Gosport approximately 1.5 miles distance from the berth. Hampshire County Council writes the external plan for the installation.

The nearest COMAH sites are:

Site	Approx. distance from the berth	External plan owner
Defence oil fuel	0.5 miles to the east	Hampshire County
depot/jetty Gosport	0.5 filles to the east	Council
Defence Munitions	0.8 miles to the east	Hampshire County
Gosport	0.6 miles to the east	Council
BP Hamble	10 miles to the east	Hampshire County
br namble	To filles to the east	Council
Waterside Industries	10.2 miles to the east	Hampshire County
Fawley	10.2 Illies to the east	Council
Humbly Grove (Alton)	24.7 miles to the north	Hampshire County
Trumbly Grove (Alton)	24.7 miles to the north	Council

2.1.21 Management of people

Information

People will be anxious to trace family members and friends who live, work, visit or attend school in the affected area. Equally, people sheltering in the affected area will wish to be reassured that displaced family members and friends are accounted for and safe. The early establishment of a Casualty Bureau, together with effective reporting mechanisms at rest centres etc will be essential in providing timely and correct information to the public.

Displaced people

The establishment of cordons may leave people displaced, for example people may return to the affected area following an incident and find themselves displaced as a result of cordons. If required, local authorities will establish a rest centre to provide shelter, welfare and information until it is safe for people to return to the affected area.

Returning residents may be able to draw attention to potentially vulnerable family members and neighbours in an affected area, for example they may be formal or informal carers.

School children and students

Local authorities are to provide welfare facilities in rest centres or schools for students unable to return to an affected area whilst an incident is ongoing.

In the event of an accident occurring during the school day, local authorities will request that schools in the affected area stay open and keep children with them until it is safe for staff and students to leave the premises. The local authority, in consultation with the TCG, will provide support.

The infants building of Portsmouth Grammar School has been placed inside the DEPZ because of the need to follow natural boundaries to designate the DEPZ, rather than follow a notional line across HMS Temeraire playing fields. The remaining school buildings are outside the zone. If OSNE is declared for this part of the city, Portsmouth City Council is to advise the school to move staff and students from the infants building to the main site, where they can be collected by parents or looked after by the school until they can leave.

Vulnerable people

Agencies are to share information about vulnerable individuals and groups within the area in order to ensure that support or interventions can be considered on a priority basis.

2.1.22 Humanitarian assistance

People affected by the incident will have a range of needs both during and after the response. The Hampshire and Isle of Wight Local Resilience Forum **Humanitarian Assistance Guidance** details the options and procedures for welfare provision; a

summary of key functions is below. Portsmouth City Council and Hampshire County Council have detailed plans to support humanitarian assistance.

Rest Centre

A rest centre is a facility providing temporary accommodation to displaced people who have no place to stay following an incident. It provides basic welfare, food and shelter requirements for a limited period. It is the responsibility of the local authority to open and manage rest centres. Rest centres may be required as part of the Reactor Emergency Plan response if the hazard from the incident requires people to be evacuated from areas of the DEPZ, or people that left the area before the accident and cannot return home.

Humanitarian Assistance Centre

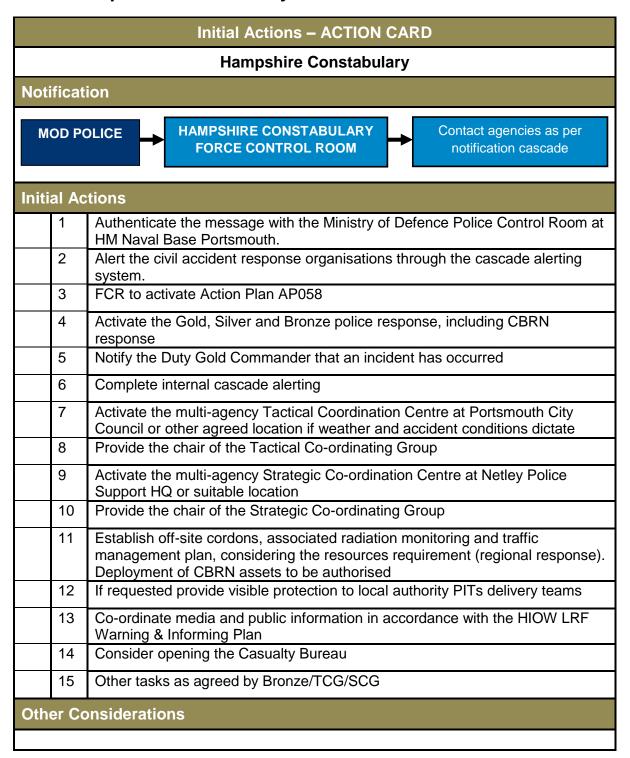
The SCG will determine if the scale and the nature of the incident requires the opening of a Humanitarian Assistance Centre (HAC). The role of the HAC is to provide longer-term welfare support to victims, survivors, family, friends, witnesses and responders. It acts as a 'one stop shop' where people can access information and support from local authority police, health, legal, financial and voluntary agencies. The affected local authority is responsible for providing a facility and a HAC should be in place 2 or 3 days after an incident.

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2.2 Initial actions by responding agencies

2.2.1 Hampshire Constabulary



2.2.2 Hampshire Fire and Rescue Service

Hampshire Fire & Rescue Service		
tifica	tion	
FOR	HIRE CONSTABULARY CE CONTROL ROOM Hampshire Fire & Rescue Service Contact agencies as per notification cascade	
	ctions	
1	Authenticate the message with Hampshire Constabulary police operations Force Control.	
2	Respond into the Naval Base via Trafalgar Gate unless otherwise directed.	
3	Notify the Duty Chief Officer that an incident has occurred.	
4	Complete internal and external cascade alerting	
5	Provide officers to:	
	Bronze - Incident Command Cell, Semaphore Tower, naval base	
	TCG - Portsmouth City Council or as advised	
	SCG – Police Training and Support HQ Netley or as advised	
6	Attend scene in accordance with pre-determined minimum first attendance. Additional attendance will depend on the extent of the situation. Conduct risk assessment before deployment if the incident presents a radiological threat.	
7	Upon arrival at Trafalgar Gate MOD will brief HFRS personnel and issue emergency bag containing:	
	 1 x personal electronic dosimeter (PED) 	
	1 x thermoluminescent dosimeter (TLD)	
	2 x potassium lodate tablets (PITs)	
	1 x particulate respirator	
	 Personnel are to switch on the PED using the black on button located at the top right hand side of the device. Personnel should monitor the PEDs regularly and report readings to the control point. If the PED alarms then HFRS staff must take two PITs, put on the particulate respirator (if not already in BA) and evacuate to the holding area. 	
	Personnel are to return the equipment once the incident is resolved.	
8	If the scale of the incident requires it, the decontamination of public casualtie at a safe distance from the incident using current procedures and before:	
	Any secondary triage or clinical intervention	
	Transportation to hospital.	
9		

2.2.3 South Central Ambulance Service

Initial Actions – ACTION CARD			
South Central Ambulance Service			
Notifica	tion		
HAMPSHIRE CONSTABULARY FORCE CONTROL ROOM South Central Ambulance Service Contact agencies as per notification cascade			
Initial A	Initial Actions		
1	Respond into the Naval Base via Trafalgar Gate unless otherwise directed.		
2	Notify the Duty Senior Manager that an incident has occurred.		
3	Complete internal and external NHS cascade alerting		
4	Provide officers to: Bronze - Incident Command Cell, Semaphore Tower, naval base TCG - Portsmouth City Council or as advised SCG - Police Training and Support HQ Netley or as advised		
5	Identify the Receiving Hospital and notify it of the incident.		
6	Attend scene in accordance with pre-determined minimum first attendance. Additional attendance will depend on the extent of the situation. Conduct risk assessment before deployment if the incident presents a radiological threat		
7	Other tasks as agreed by Bronze/TCG/SCG		
Other Considerations			

2.2.4 Portsmouth City Council

	Initial Actions – ACTION CARD		
	Portsmouth City Council		
Noti	ificat	ion	
	HAMPSHIRE CONSTABULARY FORCE CONTROL ROOM PCC & SCC EPRR Team Contact agencies as per notification cascade		
Initi	al Ac	tions	
	1	Complete internal and external cascade alerting	
	2	Implement the Emergency Response Plan for a major incident and open the Emergency Control Centre	
	3	 Provide officers to: Bronze - Incident Command Cell, Semaphore Tower, Naval Base TCG - Portsmouth City Council or as advised SCG - Police Training and Support HQ Netley or as advised RCG - Police Training and Support HQ Netley or as advised 	
	4	Provide access to the TCG offices (Floor 2 Core 3 corporate hot desk and Conference Rooms A and B).	
	5	 Determine the pre-planned countermeasures zone: EPRR Team to obtain wind and weather information from the Met Office. EPRR Team and GIS to plot the position of the vessel and the line of the wind direction from the centre of the vessel. EPRR Team and GIS to plot a 60-degree downwind sector centred on the wind direction line to a distance of 1.5km or the distance advised by MOD. EPRR Team and GIS to plot a 60-degree downwind sector centred on the wind direction line to a distance of 10km (extendibility zone). EPRR Team and GIS to identify and plot schools, nurseries, hospitals, residential and sheltered housing, prisons and other public utilities in the zone. EPRR Team and GIS to provide the initial plot information on 1.5km and 5km zones to: SCC GIS cell SCC media cell (to include street names) TCG PCC's Emergency Control Centre HCC's Emergency Control Centre If downwind zone affects Portsmouth: 	
	6.1	PITsHousing Management and Community Wardens deliver PITs to	
		Troubing management and Community manders deliver i 113 to	

Comm the pre When a comms Comm Comm Comm	for more details
Comm the pre When a comms Comm Comm Comm	TOT MOTE details
the pre When a comms Comms Comms Comms Emerg Service of schools Directors	ions and public information
6.3 Schools • Emerg Service of schools zone • Directors	s staff to release agreed public information advising the public in e-planned countermeasures zone to shelter.
6.3 Schools • Emerg Service of schools zone • Directors	authorised by the Director of Public Health or nominated deputy, s staff to release agreed advice to public to take PITs tablets.
 Emerg Service of scho zone Directo 	s staff to provide agreed internal message for staff.
Service of scho zone • Directo	
	ency Control Centre manager to provide Director of Children's es / Deputy Director for Children, Families and Education with list pols, nurseries and educational establishments in the downwind
establi	or of Children's Services / Deputy Director for Children, Families ducation to advise schools, nurseries and educational shments in the downwind zone to keep students and staff in and be ready to issue PITs when advised OR consider ation.
and Ed	or of Children's Services / Deputy Director for Children, Families ducation to provide advice to schools and educational shments outside the downwind zone.
and Ed	or of Children's Services / Deputy Director for Children, Families ducation to advise Portsmouth Grammar School to move staff udents from the infants building to the main site.
6.4 Adult and Ch	ildren's Social Care
	fy council supported vulnerable people in the downwind zone and ge advice or support as required
	with partner agencies to provide advice for other known rable people
6.5 Portsmouth I	nternational Port
Provide	e a liaison officer to Bronze.
Provide	e a liaison officer to the Emergency Control Centre/TCG
Act as	a PITs distribution centre if required
7 City Help Desl public number	k to open the emergency helpline and advise the media of the
8 Other tasks as	·
Other Considerations	s agreed by Bronze/TCG/SCG

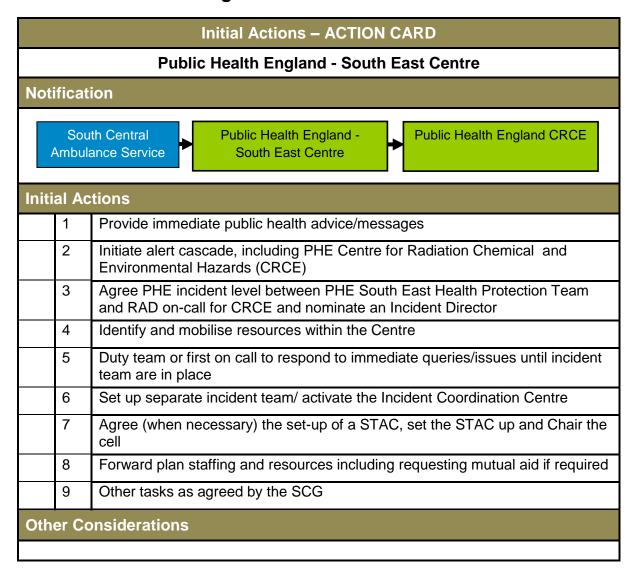
2.2.5 Hampshire County Council

Initial Actions – ACTION CARD		
4:6:4	Hampshire County Council	
tificat	lion	
Hampshire County FORCE CONTROL ROOM Hampshire County Council Contact agencies as per notification cascade		
ial Ad	ctions	
1	Complete internal cascade alerting	
2	Provide officers to:	
	 Bronze - Incident Command Cell, Semaphore Tower, Naval Base TCG - Portsmouth City Council or as advised SCG - Police Training and Support HQ Netley or as advised RCG - Police Training and Support HQ Netley or as advised 	
3	Open headquarters Emergency Control Centre, Winchester	
4	Implement the Major Incident Plan	
5	Communications and public information	
6	 the pre-planned countermeasures zone to shelter. When authorised by the Director of Public Health or nominated deputy comms staff to release agreed advice to public to take PITs tablets. Comms staff to provide agreed internal message for staff Adult and Children's Social Care 	
	 Identify council-supported vulnerable people in the downwind zone and arrange advice or support as required Work with partner agencies to provide advice for other known vulnerable people 	
7	Schools	
	 Emergency Control Centre to provide list of schools, nurseries and educational establishments in the downwind zone Director of Children's Services/Education to advise schools, nurseries and educational establishments with advice to schools in the downwir zone to keep students and staff in doors and be ready to issue PITs when advised OR consider evacuation. Director of Children's Services/Education to provide advice to schools and educational establishments outside the downwind zone. 	
8	Provide support to Gosport Borough Council and other districts as required	
9	Open emergency helpline and advise the media of the number to advertise to the public	
10	Other tasks as agreed by Bronze/TCG/SCG	
	1	

2.2.6 Gosport Borough Council

	Initial Actions – ACTION CARD		
	Gosport Borough Council		
Notifica	tion		
Hampshire County Council Gosport Borough Council			
Initial Actions			
1	Complete internal cascade alerting		
2	 Provide officers to: Bronze, if wind direction over Gosport - Incident Command Cell, Semaphore Tower, Naval Base TCG - Portsmouth City Council or as advised SCG - Police Training and Support HQ Netley or as advised RCG - Police Training and Support HQ Netley or as advised 		
3	Open the Emergency Control Centre		
4	Implement the Emergency Response Plan		
5	 If pre-planned countermeasures zone affects Gosport: Provide public information advising the public in the pre-planned countermeasures zone to shelter. Deliver PITs to properties in the predicted plume area. When authorised by Director of Public Health or nominated deputy, advise public to take PITs tablets. 		
6	Open emergency helpline and advise the media of the number to advertise to the public		
7	Other tasks as agreed by Bronze/TCG/SCG		
Other Considerations			

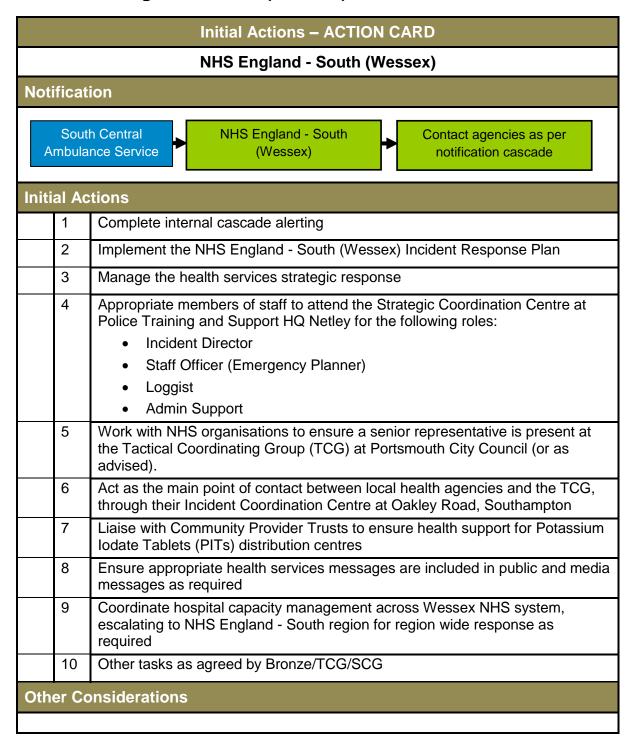
2.2.7 Public Health England - South East Centre



2.2.8 Public Health England CRCE

	Initial Actions – ACTION CARD		
Public Health England - CRCE			
Notifica	tion		
Public Health England - South East Centre Public Health England CRCE			
Initial A			
1	Determine level of the CRCE response		
2	Deploy senior staff to the STAC		
3	Send a Monitoring Liaison Officer to the TCG to coordinate between MOD resources and the CRCE Monitoring Officer		
	Provide information on location and capability of assets		
	Update risk assessments and priorities for monitoring		
4	Appoint a CRCE Monitoring Coordinator at CRCE to:		
	Develop a monitoring strategy for the incident Monitor the everall progress of the monitoring programme.		
	 Monitor the overall progress of the monitoring programme Direct and manage CRCE environmental and personal monitoring teams 		
	 Direct monitoring resources made available to CRCE by other organisations 		
5	Set up an emergency operations centre at CRCE:		
	Collate and assess radiation monitoring information		
	Provide expert advice		
6	Deploy monitoring radiation monitoring teams capable of measuring environmental contamination and personal measurements of radioactivity.		
7	Provide support to Radiation Monitoring Units if resources allow		
8	Undertake the role of national radiation monitoring coordination		
9	Provide expert advice on radiological issues for the recovery phase		
10	Liaise with key stakeholders at a local, regional and national level (for example, the EA, Food Standards Agency, local authority Environmental Health Officers, water companies		
11	Other tasks as agreed by Bronze/TCG/SCG		
Other Considerations			

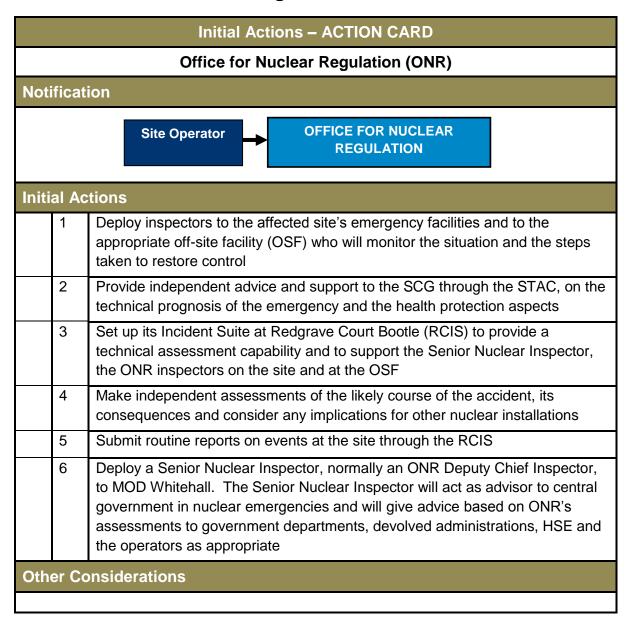
2.2.9 NHS England - South (Wessex)



2.2.10 Environment Agency

Initial Actions – ACTION CARD Environment Agency		
tificati	• •	
otinicati	OII	
Hampshire Fire & Environment Agency Rescue Service		
tial Ac	tions	
1	Complete internal cascade alerting	
2	Provide officers with specialist knowledge of radioactive substances to: SCG - Police Training and Support HQ Netley or as advised RCG - Police Training and Support HQ Netley or as advised. DEFRA Environment Operations Centre BIS Off-Site Nuclear Emergency Briefing Room or MoD HQ, as advised Investigate and/or assess the situation to ensure the protection of people and	
	the environment	
4	Advise partners and other organisations on environmental contamination, based on sound science and recognising that this may not be available in the early stages of an incident	
5	Provide information to the public and the media, in consultation with other responders at the SCG.	
6	If requested provide sampling and radiochemical analysis of controlled waters	
7	Advise on appropriate disposal of radioactive waste.	
8	Advise DEFRA divisions on technical and regulatory aspects of the response	
9	Manage flows of regulated waters if appropriate, to minimise impact.	
10	Investigate in line with statutory duties	
11	 Support to the Recovery Co-ordinating Group to assist the community in returning to normality: Advise on the impact of radioactive contamination in the environment Work with partner organisations to identify feasible remediation options and support the development of a recovery strategy Advise on the management and disposal of wastes contaminated with radioactivity Advise on the standards and criteria that will need to be satisfied by premises/locations where radioactive waste from remediation can be stored on a temporary basis Advise DEFRA on any need for an Exemption Order under the Radioactive Substances Act 1993 to facilitate the efficient management and disposal of radioactive wastes 	
1 12	Other tasks as agreed by SCG	

2.2.11 Office for Nuclear Regulation



Part 2 Chapter 3 Pre-scripted media statements

2.3 PRE	-SCRIPTED MEDIA STATEMENTS	139
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2.3 Pre-scripted media statements

2.3.1 MOD accident notification 'IF ASKED' holding statement

What this is	'If asked' media statement
Who issues it	MOD to the media 'if asked'
When to issue	In the event of an Off-Site Nuclear Emergency (OSNE) being declared by the MOD, this statement should ONLY be released if activity at the Naval Base or the siren triggers questions from the media. This should then be used as a holding statement while the shelter statement is finalised. If the holding statement is released, a copy should also be sent to the council and police communications teams. Should the volume of enquiries escalate, the police, council and MOD will agree whether to issue the holding statement proactively to the media.
Who authorises	MOD
issue	
Headline	MOD news release: Accident in Portsmouth Naval Base

A problem has occurred on board the nuclear-powered vessel X in Portsmouth Naval Base.

There is no danger to the public. A well-rehearsed response plan to deal with this incident is being put into operation by the emergency services, the Ministry of Defence, local authorities and the health services.

As a precaution, non-essential personnel are being moved from an area around the vessel within the Naval Base.

Notes to editors:

MOD TO INSERT ADDITIONAL INFO ABOUT THE AFFECTED SUBMARINE to assist the media in creating a story around the 'if asked' statement.

MOD TO INSERT APPROPRIATE NUMBER FOR ADDITIONAL ENQUIRIES.

2.3.2 Shelter statement

What this is	Emergency broadcast		
	Prepared public information and media statement		
Who issues it	Media cell on behalf of TCG/SCG		
When to issue	When the decision is taken that the public should shelter (note: if		
	announcement B1 is not triggered proactively this would be sent out		
	at the same time as the first announcement [B1]).		
	Change the local authority website address if Gosport is affected.		
Where to send	Public information and media channels, including social media		
it	channels.		
Who	SCG (delegated to media cell director or media cell manager), or		
authorises	TCG if SCG not operating in early stages		
issue			
Headline	People urged to stay indoors after naval base incident – update at		
	INSERT DATE AND TIME		

This is an emergency broadcast.

The Ministry of Defence has issued information about a problem with the nuclear-powered submarine \mathbf{X} in Portsmouth Naval Base.

There is a very small possibility this problem could lead to radioactive material escaping from the submarine. A well-rehearsed plan is in place to deal with this incident and has been put into action by the emergency services, the Ministry of Defence, local authorities and the NHS.

As part of this plan, precautionary measures are being taken in a small area of **Portsmouth/Gosport** to ensure the public are protected should a release of radioactive material occur.

Precautionary measures are being taken in the following area:

INSERT AREA TO BE DEFINED BY EASILY-UNDERSTOOD JUNCTIONS AND LANDMARKS. LIST OF ROADS AND PICTURE/MAP ALSO TO BE ATTACHED

REPEAT

(NOTE: THE PRIORITY AT THIS POINT IS TO GET THE SHELTER MESSAGES OUT TO PROTECT THE PUBLIC. IF SPECIFIC ROAD NAMES ARE NOT AVAILABLE, DESCRIBE THE AREA AFFECTED WITH ROAD NAMES TO FOLLOW)

As part of the plan for dealing with the incident, council staff are delivering potassium iodate tablets to all homes in the area where precautionary measures are being taken.

The potassium iodate tablets provide protection against harmful contamination. Information leaflets are being delivered with the tablets.

INSERT ONE OF FOLLOWING STATEMENTS AS REQUIRED

EITHER: We are delivering the tablets as a precaution. You don't need to take them now. We will let you know if and when you should take the tablets.

OR: You should take the potassium iodate tablets now, or as soon as you receive them, to keep the long-term health risks to an absolute minimum.

REPEAT AREA TO BE DEFINED BY EASILY-UNDERSTOOD JUNCTIONS AND LANDMARKS. LIST OF ROADS AND PICTURE/MAP ALSO TO BE ATTACHED

If you are in the area we have described and you live there, please go home.

If you are visiting or working in the area, please stay inside your workplace, a shop or public building.

You should go in, shut windows and doors, and shut down any fans, fires, ventilators or air-conditioning systems that draw air from outside the building.

You should stay in. If you have children at school in the area where precautionary measures are being taken, please don't try and collect them. The school will take care of them.

You should tune in to local radio or check the council's website at www.portsmouth.gov.uk or follow Hampshire Police on twitter @hantspolice.

If you live in the area and cannot return home, you can go to a rest centre at

INSERT PLACE AND ADDRESS HERE

If radioactive material is released into the air, the quantity would be very small and wouldn't make anyone feel unwell in the short-term.

However, it could be harmful to health in the future as it slightly increases the risk of developing some cancers. If you are in the area where precautionary measures are being taken, it is important you take action to make sure you are protected and so keep the slightly increased risk of cancer to an absolute minimum.

If you are outside the affected area, you are not at risk and you can continue with your normal activities.

Drivers are asked to avoid making unnecessary journeys to help keep main roads clear for emergency vehicles.

We will give out more information when we have it, so please check our website at www.portsmouth.gov.uk, listen for updates on local radio or follow @hantspolice on twitter.

The emergency services are working hard to respond to this incident and have asked the public to help by only using the 999 number for real emergencies.

If you need help but it's not urgent, please call 101 OR

INSERT HELPLINE OR CASUALTY BUREAU NUMBER IF OPERATING

If you need help, call the emergency helpline: 0800 085 0375.

(NOTE; check numbers)

If you have health worries, call the NHS non-emergency number 111.

Notes to editors:

- The incident has happened on a nuclear-powered submarine in the Naval Base in Portsmouth. The submarine is called **INSERT NAME**.
- The incident involves the small nuclear reactor that is used to power the submarine.
- The reactor is the size of an industrial wheelie bin.
- There is absolutely no danger whatsoever of an atom-bomb type explosion.
- As a result of this incident, a small amount of radioactive material could be released from the submarine into the air. The measures being taken are a precaution in case a release of radioactive material happens.
- The type of radiation that **could be** released occurs naturally in the environment and comes from things like microwaves and televisions in extremely small quantities.
- Radiation is measured in millisieverts. The average amount of radiation people are exposed to is 3mSV a year, although the amount coming from the environment in some areas can be up to 10mSV a year.
- The amount of radioactive material that could be released as a result of this
 incident is unlikely to be more than INSERT (NOTE: CHECK THIS IS CORRECT
 ON THE DAY).
- The amount of radioactive material that could be released into the air is very small indeed. This means it only affects a very small area of the Portsmouth/Gosport that is closest to the Naval Base.
- If a radioactive material is released, it would be released into the air so we look at the wind direction to work out exactly which area could be affected.
- The area that would actually affected by the release of radioactive material is likely to be quite small. To be on the safe-side, we take precautionary measures in a bigger area, just to make absolutely sure people are not put at risk.
- The radioactive material that **could be** released into the air won't make anyone feel at all unwell in the short-term.
- However, exposure to this type of radiation could be harmful to health in the future as it slightly increases the risk of developing some cancers.
- The precautionary measures are necessary to protect the public from possible exposure to radioactive material and so keep the slightly increased risk of cancer to an absolute minimum.
- Where possible, pets should also be brought inside and kept inside until residents are told that it is safe to go outside.
- Potassium lodate tablets are being delivered to all homes in the area where precautionary measures are being taken. Each household will receive a strip of ten

tablets (enough for five people) and an information pack.

- If you live in the area where precautionary measures are being taken and have not received your tablets, or do not have enough, call 0800 085 0375. (NOTE ONLY USE THIS MESSAGE WHEN PITS DISTRIBUTION COMPLETE)
- Potassium iodate tablets help to reduce the risks associated with exposure to radioactive material by stopping the thyroid gland in your body from absorbing harmful material.
- Information packs have been delivered with the tablets, including details about safe doses for infants and small children, and for women who are pregnant or breastfeeding.
- Anyone concerned about taking PITs can call the NHS on 111 for more information.
- The schools and nurseries in the area where precautions are being taken have enough potassium iodate tablets for all the children and will keep them inside where they are safe, and make sure they are well looked after.
- The schools/nurseries in the area where precautionary measures are being taken are: INSERT NAMES.
- No other schools/nurseries are affected.

Author	Sign Off	Date/time released
Shelter statement	Associated tweets	

The following are sample tweets that could be used in association with the above emergency broadcast. Social media is a key communications tool but care needs to be taken to ensure additional information is online **before** tweets are issued so key audiences (including the media) can find more information.

The media cell manager (or communications lead at TCG if SCG is not yet running) will ensure tweets and other social media updates are appropriately timed and authorised.

Sub problem at Naval Base. No need for alarm. Emergency services on hand. Find out more www.portsmouth.gov.uk #portsmouthsub

Small possibility of radioactive material from sub. No cause for alarm. Precautions being taken. Find out more www.portsmouth.gov.uk #portsmouthsub (125 characters)

Precautions being taken in (INSERT AREA) following submarine incident. Check if your street is affected. www.portsmouth.gov.uk #portsmouthsub (128 characters)

If you are in area affected by sub, go in, stay in, tune in.

Find out what's happening www.portsmouth.gov.uk #portsmouthsub (124 characters)

Potassium iodate tablets being delivered to area affected by #portsmouthsub. Find out more at www.portsmouth.gov.uk (115 characters)

Outside area affected by #portsmouthsub then carry on as normal. No cause for any concern. Just avoid main city roads as it's busy out there. (140 characters)

Outside area affected by #portsmouthsub? Don't go into the area to collect children from school. They are safe and well looked after. (136 characters)

In the area affected by #portsmouthsub? Go in, stay in, and bring your pets in too. They are also safer inside. www.portsmouth.gov.uk (134 characters)

2.3.3 Advice to the public to take PITs

What this is	Emergency broadcast
	Prepared public information and media statement
Who issues it	Media cell on behalf of TCG/SCG
When to issue	When MOD and health representatives, through SCG/TCG,
	authorise the public to take PITs
	Change the local authority website address if Gosport is affected
Where to send	Public information and media channels, including social media
it	
Who	SCG (delegated to media cell director or media cell manager), or
authorises	TCG if SCG not operating in early stages
issue	
Headline	People urged to take potassium iodate tablets now following Naval
	Base incident – update at INSERT DATE AND TIME

This is an emergency broadcast.

The Ministry of Defence has issued information about a problem with the nuclear-powered submarine X in Portsmouth Naval Base.

There is a very small possibility this problem could lead to radioactive material escaping from the submarine. A well-rehearsed plan is in place to deal with this incident and has been put into action by the emergency services, the Ministry of Defence, local authorities and the NHS.

As part of this plan, precautionary measures are being taken in a small area of **Portsmouth/Gosport** to ensure the public are protected should a release of radioactive material happen. The precautionary measures include advising people in the area to go inside, stay in and tune in for more information, and distributing potassium iodate tablets to homes in the area.

If you live in the area where precautionary measures are being taken, the advice from health professionals is to take the potassium iodate tablets now to minimise the health risks.

Council staff have already delivered the tablets to homes in the area where precautionary measures are being taken. If you live the in the area and your tablets have not been delivered, please call the helpline on 0800 085 0375.

Precautionary measures are being taken in the following area:

INSERT AREA TO BE DEFINED BY EASILY-UNDERSTOOD JUNCTIONS AND LANDMARKS. LIST OF ROADS AND PICTURE/MAP SHOULD ALREADY BE ON THE WEBSITE - REFER MEDIA TO THIS.

REPEAT

The potassium iodate tablets provide protection against harmful contamination. Information leaflets are being delivered with the tablets.

If radioactive material is released into the air, the quantity would be very small and wouldn't make anyone feel unwell in the short-term.

However, it could be harmful to health in the future as it slightly increases the risk of developing some cancers. If you are in the area where precautionary measures are being taken, it is important you take action to make sure you are protected and so keep the slightly increased risk of cancer to an absolute minimum.

If you are in the area we have described, you must go inside now.

If you live in the area, please go home. If you are visiting or working in the area, please stay inside your workplace, a shop or public building.

You should go in, shut windows and doors, and shut down any fans, fires, ventilators or air-conditioning systems that draw air from outside the building.

You should stay in. If you have children at school in the area where precautionary measures are being taken, please don't try and collect them. The school will take care of them.

You should tune in to local radio or check the council's website at www.portsmouth.gov.uk or follow Hampshire Police on twitter @hantspolice.

If you live in the area and cannot return home, you can go to a rest centre at

INSERT PLACE AND ADDRESS HERE

If you are outside the affected area, you are not at risk and you can continue with your normal activities.

Drivers are asked to avoid making unnecessary journeys to help keep main roads clear for emergency vehicles.

We will give out more information when we have it, so please check our website at www.portsmouth.gov.uk, listen for updates on local radio or follow @hantspolice on twitter.

The emergency services are working hard to respond to this incident and have asked the public to help by only using the 999 number for real emergencies.

If you need help but it's not urgent, please call 101 OR

INSERT HELPLINE OR CASUALTY BUREAU NUMBER IF OPERATING

If you need help, call the emergency helpline: 0800 085 0375.

(NOTE; check numbers)

If you have health worries, call the NHS non-emergency number 111.

Notes to editors:

- The incident has happened on a nuclear-powered submarine in the Naval Base in Portsmouth. The submarine is called INSERT NAME.
- The incident involves the small nuclear reactor that is used to power the submarine.
- The reactor is the size of an industrial wheelie bin.
- There is absolutely no danger whatsoever of an atom-bomb type explosion.
- As a result of this incident, a small amount of radioactive material could be
 released from the submarine into the air. The measures being taken are part of the
 Reactor Emergency Plan and are a precaution in case a release of radioactive
 material happens.
- The type of radiation that could be released occurs naturally in the environment and comes from things like microwaves and televisions in extremely small quantities.
- Radiation is measured in millisieverts. The average amount of radiation people are exposed to is 3mSV a year, although the amount coming from the environment in some areas can be up to 10mSV a year.
- The amount of radioactive material that could be released as a result of this
 incident is unlikely to be more than INSERT (NOTE: CHECK THIS IS CORRECT
 ON THE DAY).
- The amount of radioactive material that could be released into the air is very small indeed. This means it only affects a very small area of the Portsmouth/Gosport that is closest to the Naval Base.
- If a radioactive material is released, it would be released into the air so we look at the wind direction to work out exactly which area could be affected.
- The area that would actually affected by the release of radioactive material is likely to be quite small. To be on the safe-side, we take precautionary measures in a bigger area, just to make absolutely sure people are not put at risk.
- The radioactive material that **could be** released into the air won't make anyone feel at all unwell in the short-term.
- However, exposure to this type of radiation could be harmful to health in the future as it slightly increases the risk of developing some cancers.
- The precautionary measures are necessary to protect the public from possible exposure to radioactive material and so keep the slightly increased risk of cancer to an absolute minimum.
- Where possible, pets should also be brought inside and kept inside until residents are told that it is safe to go outside.
- Potassium lodate tablets are being delivered to all homes in the area where
 precautionary measures are being taken. Each household will receive a strip of ten
 tablets (enough for five people) and an information pack.
- If you live in the area where precautionary measures are being taken and have not received your tablets, or do not have enough, call 0800 085 0375
- Potassium iodate tablets help to reduce the risks associated with exposure to radioactive material by stopping the thyroid gland in your body from absorbing harmful material.

- Information packs have been delivered with the tablets, including details about safe doses for infants and small children, and for women who are pregnant or breastfeeding.
- Anyone concerned about taking PITs can call the NHS on 111 for more information.
- The schools and nurseries in the area where precautions are being taken have enough potassium iodate tablets for all the children and will keep them inside where they are safe, and make sure they are well looked after.
- The schools/nurseries in the area where precautionary measures are being taken are: INSERT NAMES.
- No other schools/nurseries are affected.

Author	Sign Off	Date/time released
Advice to the public to	Associated tweets	
take PITs		

The following are sample tweets that could be used in association with the above emergency broadcast. Social media is a key communications tool but care needs to be taken to ensure additional information is online **before** tweets are issued so key audiences (including the media) can find more information.

The media cell manager (or communications lead at TCG if SCG is not yet running) will ensure tweets and other social media updates are appropriately timed and authorised.

Sub problem at Naval Base. No need for alarm. Emergency services on hand. Find out more www.portsmouth.gov.uk #portsmouthsub

Small possibility of radioactive material from sub. No cause for alarm. Precautions being taken. Find out more www.portsmouth.gov.uk #portsmouthsub (125 characters)

Precautions being taken in (INSERT AREA) following submarine incident. Check if your street is affected. www.portsmouth.gov.uk #portsmouthsub (128 characters)

If you are in area affected by sub, go in, stay in, tune in.

Find out what's happening www.portsmouth.gov.uk #portsmouthsub (124 characters)

Potassium iodate tablets being delivered to area affected by #portsmouthsub. Find out more at www.portsmouth.gov.uk (115 characters)

Outside area affected by #portsmouthsub then carry on as normal. No cause for any concern. Just avoid main city roads as it's busy out there. (140 characters)

Outside area affected by #portsmouthsub? Don't try to go into area to collect children from school. They are safe and well looked after. (137 characters)

In the area affected by #portsmouthsub? Go in, stay in, and bring your pets in too. They are also safer inside. www.portsmouth.gov.uk (134 characters)

In the area affected by #portsmouthsub? Potassium iodate tablets should have been delivered to you. Find out more at www.portsmouth.gov.uk (139 characters)

In the area affected by #portsmouthsub? Health advice is take the potassium iodate tablets now. Find out more at www.portsmouth.gov.uk (135 characters)

Area affected by #portsmouthsub? No radioactive leak. Measures are precaution. Go in, stay in, tune in for more info. www.portsmouth.gov.uk (139 characters)

#portsmouthsub Measures are precaution to protect against exposure to radioactive material if leak happens. www.portsmouth.gov.uk

2.3.4 Radioactive release statement

What this is	Emergency broadcast
	Prepared public information and media statement
Who issues it	Nominated lead agency on behalf of TCG/SCG
When to issue	When MOD confirm a release of radioactive material into the
	atmosphere has occurred.
	Change the local authority website address if Gosport is affected
Where to send	Public information and media channels;
it	MOD. Use social media channels.
Who	SCG, or TCG if SCG not operating in early stages
authorises	
issue	
Headline	People urged to stay indoors after naval base incident – update at
	INSERT DATE AND TIME

This is an emergency broadcast

The Ministry of Defence has issued information about a problem with the nuclear-powered submarine X in Portsmouth Naval Base.

A small amount of radioactive material from the submarine has now been released into the atmosphere.

There is no danger whatsoever of a nuclear explosion.

The radioactive material that has been released won't make you feel unwell in the short term. However, it could be harmful to your health in the future as exposure slightly increases the risk of developing some cancers. That is why, if you are in the area where precautionary measures have been taken, it is very important that you take action to make sure you are protected and keep the slightly increased risk of cancer to a minimum.

The following area is affected:

INSERT AREA TO BE DEFINED BY EASILY-UNDERSTOOD JUNCTIONS AND LANDMARKS. LIST OF ROADS AND PICTURE/MAP SHOULD BE ONLINE. DIRECT THE MEDIA AND PUBLIC THERE.

REPEAT

If you are in the affected area, potassium iodate tablets will have been delivered to you. You should already have taken the potassium iodate tablets to minimise the health risks.

If you haven't taken your potassium iodate tablets, please do so now.

If you need potassium iodate tablets, call the helpline: 0800 085 0375.

You should also:

Go in – shut windows and doors and shut down fans, fires, ventilators or any air conditioning system drawing air from outside the building.

Stay in – don't collect children from school until you are asked to. The school will take care of them, and if they need to take potassium iodate tablets, these will be available.

Tune in – to local radio, check <u>www.portsmouth.gov.uk</u> and follow @hantspolice on twitter

If you are outside the affected area, you are not at risk and you can continue with your normal activities.

Drivers are asked to avoid making unnecessary journeys to help keep main roads clear for emergency vehicles.

We will give out more information when we have it, so please check our website at www.portsmouth.gov.uk, listen for updates on local radio or follow @hantspolice on twitter.

The emergency services are working hard to respond to this incident and have asked the public to help by only using the 999 number for real emergencies.

If you need help but it's not urgent, please call 101 OR

INSERT HELPLINE OR CASUALTY BUREAU NUMBER IF OPERATING

If you need help, call the emergency helpline: 0800 085 0375.

(NOTE; check numbers)

If you have health worries, call the NHS non-emergency number 111.

Notes to editors:

- The incident has happened on a nuclear-powered submarine in the Naval Base in Portsmouth. The submarine is called **INSERT NAME**.
- The incident involves the small nuclear reactor that is used to power the submarine.
- The reactor is the size of an industrial wheelie bin.
- There is absolutely no danger whatsoever of an explosion.
- As a result of this incident, a small amount of radioactive material *has been* released from the submarine into the air.
- The type of radiation that *has been* released occurs naturally in the environment and comes from things like microwaves and televisions in extremely small quantities.
- Radiation is measured in millisieverts. The average amount of radiation people are exposed to is 3mSV a year, although the amount coming from the environment in some areas can be up to 10mSV a year.

- The amount of radioactive material that **has been** released as a result of this incident is **INSERT** (NOTE: CHECK THIS IS CORRECT ON THE DAY).
- The amount of radioactive material that *has been* released into the air is very small indeed. This means it only affects a very small area of the Portsmouth/Gosport that is closest to the Naval Base.
- As radioactive material is released into the air, we looked at the wind direction to work out exactly which area is affected.
- The area actually affected by the release of radioactive material is likely to be very small. To be on the safe-side, we take measures to protect the public in a bigger area, just to make absolutely sure people are not put at risk.
- The radioactive material that *has been* released into the air won't make anyone feel at all unwell in the short-term.
- However, exposure to this type of radiation could be harmful to health in the future as it slightly increases the risk of developing some cancers.
- The measures taken are designed to protect the public from possible exposure to radioactive material and so keep the slightly increased risk of cancer to an absolute minimum.
- Where possible, pets should also be brought inside and kept inside until residents are told that it is safe to go outside.
- Potassium lodate tablets have been delivered to all homes in the area where
 measures are being taken to protect the public. Each household should have
 received a strip of ten tablets (enough for five people) and an information pack.
- If you live in the area where precautionary measures are being taken and have not received your tablets, or do not have enough, call 0800 085 0375.
- Potassium iodate tablets help to reduce the risks associated with exposure to radioactive material by stopping the thyroid gland in your body from absorbing harmful material.
- Information packs have been delivered with the tablets, including details about safe doses for infants and small children, and for women who are pregnant or breastfeeding.
- Anyone concerned about taking PITs can call the NHS on 111 for more information.
- The schools and nurseries in the area where measures are being taken to protect the public have enough potassium iodate tablets for all the children and will keep them inside where they are safe, and make sure they are well looked after.
- The schools/nurseries in the area where precautionary measures are being taken are: INSERT NAMES.
- No other schools/nurseries are affected.

Author	Sign off	Date/time released

The following are sample tweets that could be used in association with the above emergency broadcast. Social media is a key communications tool but care needs to be taken to ensure additional information is online **before** tweets are issued so key audiences (including the media) can find more information.

The media cell manager (or communications lead at TCG if SCG is not yet running) will ensure tweets and other social media updates are appropriately timed and authorised.

In area affected by #portsmouthsub? Small release of radioactive material. Go in and stay in to minimise health risks www.portsmouth.gov.uk (140 characters)

In area affected by #portsmouthsub? Radioactive release won't make you feel ill now. Slight increase risk of cancer in long-term. www.portsmouth.gov.uk

Precautions being taken in (INSERT AREA) following submarine incident. Check if your street is affected. www.portsmouth.gov.uk #portsmouthsub (128 characters)

In area affected #portsmouthsub, take action now. Go in, stay in, tune in and take potassium iodate tablets. www.portsmouth.gov.uk (130 characters)

Potassium iodate tablets have been delivered to area affected by #portsmouthsub. Call INSERT NUMBER if not got yours. www.portsmouth.gov.uk (118 characters)

Outside area affected by #portsmouthsub then carry on as normal. No cause for any concern. Just avoid main city roads as it's busy out there. (140 characters)

Outside area affected by #portsmouthsub? Don't try to go into area to collect children from school. They are safe and well looked after. (137 characters)

In the area affected by #portsmouthsub? Go in, stay in, and bring your pets in too. They are also safer inside. www.portsmouth.gov.uk (134 characters)

In the area affected by #portsmouthsub? Health advice is take the potassium iodate tablets now. Find out more at www.portsmouth.gov.uk (135 characters)

2.3.5 All clear statement

What this is	Emergency broadcast
	Prepared public information and media statement
Who issues	Nominated lead agency on behalf of SCG/TCG
it	
When to	When SCG authorises all-clear
issue	
Where to	Public information, media and social media channels; MOD
send it	
Who	SCG
authorises	
issue	
Headline	Public advised it is now safe to go outside following Naval Base
	incident - update at INSERT DATE AND TIME

This is an emergency broadcast

The MOD and health professionals have advised the council that there is no danger to the public arising from the problem with the nuclear powered submarine INSERT NAME OF VESSEL IN HERE at Portsmouth Naval Base.

It is safe to go outside and get on with your normal activities.

IF THERE HAS BEEN A RELEASE, CONFIRM RADIATION LEVELS ARE NOW SAFE. The council would like to thank residents and visitors for their help during the recent incident.

If you still need help, call the emergency helpline: 0800 085 0375.

INSERT HEALTH ADVICE ON WHAT TO DO WITH ANY UNUSED POTASSIUM IODATE TABLETS

IF THERE HAS BEEN A RELEASE, INSERT ADVICE TO VENTILATE BUILDINGS THROUGHLY AND ANY ON-GOING HEALTH ADVICE RELATING TO DRINKING WATER, FOOD AND ANYTHING ELSE THAT HAS BEEN OUTSIDE.

INSERT HELPLINE OR CASUALTY BUREAU NUMBER IF OPERATING

If you have health worries, contact your GP or call the NHS non-emergency number 111.

Notes to editors:

- The incident has happened on a nuclear-powered submarine in the Naval Base in Portsmouth. The submarine is called INSERT NAME.
- The incident involves the small nuclear reactor that is used to power the submarine.
- The reactor is the size of an industrial wheelie bin.
- There was absolutely no danger whatsoever of a bomb type explosion.
- As a result of this incident, a small amount of radioactive material was/could have been released from the submarine into the air.
- The type of radiation that was/could have been released occurs naturally in the environment and comes from things like microwaves and televisions in extremely small quantities.
- Radiation is measured in millisieverts. The average amount of radiation people are exposed to is 3mSV a year, although the amount coming from the environment in some areas can be up to 10mSV a year.
- The amount of radioactive material that was/could have been released as a result
 of this incident is (unlikely to have been more than) INSERT (NOTE: CHECK THIS
 IS CORRECT ON THE DAY).
- The amount of radioactive material that was/could have been released into the air
 is very small indeed. This means it only affected a very small area of the
 Portsmouth/Gosport that is closest to the Naval Base.
- The area that was/could have been actually affected by the release of radioactive material was/is likely to have been quite small. To be on the safe-side, we took precautionary measures in a bigger area, just to make absolutely sure people are not put at risk.
- The radioactive material that **was/could have been** released into the air won't make anyone feel at all unwell in the short-term.
- However, exposure to this type of radiation could be harmful to health in the future as it slightly increases the risk of developing some cancers.
- The precautionary measures are necessary to protect the public from possible exposure to radioactive material and so keep the slightly increased risk of cancer to an absolute minimum.
- Where possible, pets should have been brought inside and kept inside until residents are told that it is safe to go outside.
- Potassium lodate tablets were delivered to all homes in the area where
 precautionary measures were taken. Each household should have received a strip
 of ten tablets (enough for five people) and an information pack.
- Potassium iodate tablets help to reduce the risks associated with exposure to radioactive material by stopping the thyroid gland in your body from absorbing harmful material.

The public were advised by health professionals to take the PITs tablets **INSERT**WHEN

- Information packs were delivered with the tablets, including details about safe doses for infants and small children, and for women who are pregnant or breastfeeding.
- Anyone concerned about PITs can call the NHS on 111 for more information.
- The schools and nurseries in the area where precautions were taken had enough potassium iodate tablets for all the children.

OFFICIAL - PUBLIC VERSION - PORTSMOUTH

Part 2 Chapter 3

•	The schools/nurseries in the area where measures were taken are: IN	SERT
	NAMES.	

No other schools/nurseries were affected.

Author	Sign off	Date/time released

2.3.6 Sample internal messages

Incident Stage	Time of day	Audience	Sample internal messages	Communication methods
Stage One	- Accident	notification		
stage one accident notification	anytime	all staff	 A problem has occurred on board the nuclear powered vessel <insert name=""> at Portsmouth Naval Base.</insert> We (PCC) are working with the emergency services, the MOD and our health colleagues to put a response plan in place to deal with this incident. There is no danger whatsoever of a nuclear bomb type explosion. Further information for the public will be provided as it becomes available, via local media, the council's website and social media. Further information for staff will be provided as it becomes available, on Portsmouth CC Intranet and via email. In the meantime, you should continue to work as normal unless you are otherwise advised by your manager. If you are part of the council's emergency response team, you should contact INSERT CONTACT DETAILS straight away. 	Portsmouth CC Intranet email
stage one - incident notification	anytime	heads of service/ managers	 <in above="" addition="" messages="" the="" to=""></in> At this stage, please ensure business as usual continues but make necessary preparations so you, and your service/staff, are ready to act should the incident escalate. If you have staff who are working outside in areas of the city that could be affected by a leak of radioactive material <insert areas="" contamination="" link="" map="" of="" possible="" range="" to="" within="">, please ensure you are able to contact them and can advise them to return to a safe location should the need arise.</insert> 	email only (to CTB and third tier managers)

Stage Two				B
stage two shelter	anytime	all staff and councillors	 As you know from our earlier message <if applicable=""> the MOD has announced a problem has occurred on board the nuclear powered vessel <insert name=""> at Portsmouth Naval Base.</insert></if> We (PCC) are continuing to work with the emergency services, the MOD and our health colleagues to deal with the incident. Although there is no cause for alarm, we need to let you know there is now a very small possibility that this problem could lead to radioactive material escaping from the vessel The following area of the city is affected: INSERT info from external comms. You can find our current advice for the public on the council website <insert link=""> or by following us on twitter @portsmouthoday or on www.facebook.com/portsmouthcitycouncil</insert> We will continue to keep staff informed via Portsmouth CC Intranet and the council's email system. Unless you are in the area of the city affected, you should continue to work as normal unless otherwise advised by your manager. As the police will be asking everyone to avoid non-essential journeys in and around Portsmouth to help keep roads clear for emergency services, it would be helpful if staff could remain in one location and reschedule any off-site meetings until the incident is over. If you have children at school in the affected area, please do not go and collect them. The school will take care of them until the incident is over. 	Portsmouth CC Intranet and email

stage two - anytime	heads of	<in above="" addition="" messages="" the="" to=""></in>	email to CTB
shelter	service/ managers	 At this stage, staff who are outside the affected area should continue to work as normal. Off-site meetings should be rescheduled to help keep the amount of traffic on the roads to a minimum If you have staff working inside a building in the affected area, please ensure they are contacted and told to remain inside and wait for further information. If you have staff working outside in the open air in the affected area, please ensure they are contacted immediately and told to return to the Civic Offices or other appropriate council building outside the affected area. At this stage, there is no immediate danger but it is essential you make sure you know where all your staff are and can advise them appropriately to ensure they are in a safe place should the incident escalate. Directors and managers should continue to manage their areas in accordance with business continuity and emergency response plans, keeping SMT informed of any key decisions. You should be mindful of the fact that the council needs to continue to deliver essential services and manage the incident and staff should not be sent home without consultation with SMT. 	and third tier only

Stage Two stage two - shelter	anytime	staff working inside a building in the affected area	 <in above="" addition="" all="" messages="" staff="" to=""></in> If you are working from home and are in the area affected by the incident, you should stay at home and wait for further information. If you are working in a council building inside the affected area, you should ensure you are able to contact an appropriate manager and stay inside and wait for further information. As with the public, the advice is to go in, stay in and tune in. Make sure all doors and windows are closed and shut down fans, fires and ventilation systems drawing in air from outside. In addition to providing staff information via email and the intranet, we will also provide information via @portsmouthtoday on twitter and on www.facebook.com/portsmouthcitycouncil and via our website and 	email Portsmouth CC Intranet managers to contact directly by phone
stage two - shelter	anytime	staff working outside in the open air in the affected area	 local radio. in addition to all staff messages above> If you are working outside in the open air in the affected area, you should contact your manager as soon as possible. Unless advised otherwise by your manager, you should return to the Civic Offices, or to another council office outside the affected area. 	email Portsmouth CC Intranet managers to contact directly by phone

Part 2

Chapter 3

Stage Three - PITs dis		As you know from our soulier massages the MOD by a series of	Dortomouth CC
Stage three PITs distribution underway anytime - <note as="" at="" be="" day="" end="" go="" happens="" home="" if="" incident="" let="" messages="" need="" needed="" of="" staff="" tailored="" the="" to="" we="" will=""></note>	all staff and councillors	 As you know from our earlier messages, the MOD has announced a problem has occurred on board the nuclear powered vessel <insert name=""> at Portsmouth Naval Base.</insert> We (PCC) are continuing to work with the emergency services, the MOD and our health colleagues to deal with the incident. Although there is still no cause for alarm, as there remains a small possibility that radioactive material could escape from the vessel, we are now taking further precautions to protect residents in the affected area and wanted to ensure staff are fully informed. Exposure to radioactive material can be hazardous. The recognised way to minimise the health risks is for people to take potassium iodate tablets as this prevents the thyroid gland from absorbing harmful material. We are now giving away/distributing potassium iodate tablets to residents in the affected area, which is <insert link="" map="" to=""></insert> You can find our current advice for the public on the council website <insert link=""> or by following us on twitter</insert> @portsmouthtoday or on www.facebook.com/portsmouthcitycouncil We will continue to keep staff informed via Portsmouth CC Intranet and the council's email system. If you are working outside the affected area, you should continue to work as normal. If you have children at school in the affected area, please do not attempt to collect them. The school will look after them until the incident is over and has a supply of potassium iodate tablets for all pupils. Additional messages will be added regarding how long the incident may last, and any other relevant information such as traffic 	Portsmouth CC Intranet and email

Stage Thre	ee - PITs dis	stribution		
stage three - PITs distribution	anytime	heads of service/ managers	 If you have staff working outside in the open air in the affected area, you must ensure they are contacted immediately and told to return to the Civic Offices or appropriate council building to take shelter If you have staff working inside a building in the affected areas, you must ensure they are contacted and advised to remain inside. Make sure they know they must close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. Directors and managers should continue to manage their areas in accordance with business continuity and emergency response plans, keeping SMT informed of any key decisions. You should be mindful of the fact that the council needs to continue to deliver essential services and manage the incident and staff should not be sent home without consultation with SMT. 	email to CTB and third tier only
stage three - PITs distribution	anytime If incident happens close to end of working day, might be better to advise staff to return home	staff working inside a building in the affected area	 <in above="" addition="" all="" messages="" staff="" the="" to=""></in> If you are working inside a building in the affected area, stay in the building. Close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. Stay inside and wait for further information, either through the council's email and intranet or from your manager. PITs tablets will be delivered to the building you are working at. <insert timescales=""> If you are concerned, contact your manager.</insert> You can find the information being provided to the public on the 	email and Portsmouth CC Intranet managers to contact directly by phone

- Grago Till	ee - PITs dis	on is directly	website at www.portsmouth.gov.uk or on twitter @portsmouthtoday or www.facebook.com/portsmouthcitycouncil	
stage three - PITs distribution	anytime If incident happens close to end of working day, might be better to advise staff to return home	staff working outside in the open air in the affected area	 staff in the affected area should already have returned to a council building outside the affected area. If you are still outside in the affected area, you must take shelter immediately. You must return to the Civic Offices or another council building outside the affected area. Make contact with your manager as soon as possible to seek further advice. PITs tablets will be delivered to council buildings in the affected area <insert timescales="">. If you are concerned, contact your manager.</insert> Go in, close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. Stay inside and wait for further information, either through the council's email and intranet, from your manager, or from www.portsmouth.gov.uk or @portsmouthtoday or www.facebook.com/portsmouthcitycouncil 	email and Portsmouth CC Intranet managers to contact directly by phone

Stage Fou	r - Take PIT	s tablets		
Stage 4 take PITs tablets	anytime If the incident happens later in the day, it may be advisable to send non- essential staff home.	all staff and councillors	 As you know from our earlier message, the MOD has announced a problem has occurred on board the nuclear powered vessel <insert name=""> at Portsmouth Naval Base.</insert> We (PCC) are continuing to work with the emergency services, the MOD and our health colleagues to deal with the incident. Although there is still no cause for alarm, as there remains a small possibility that radioactive material could escape from the vessel, we are now taking further precautions to protect residents in the affected area and wanted to ensure staff are fully informed. Exposure to radioactive material can be hazardous. The recognised way to minimise the health risks is for those in the affected area to take potassium iodate tablets as this prevents the thyroid gland from absorbing harmful material. The advice from health professionals for those in the affected area is to take the potassium iodate tablets now to minimise the potential risk to health The affected area is <insert affected="" area="" link="" map="" of="" to=""></insert> You can find our current advice for the public on the council website <insert link=""> or on twitter @portsmouthtoday or on www.facebook.com/portsmouthcitycouncil</insert> We will continue to keep staff informed via Portsmouth CC Intranet and the council's email system. If you are working outside the affected area, you should continue to work as normal. If you have children at school in the affected area, please do not attempt to collect them. The school will look after them until the incident is over and has a supply of potassium iodate tablets for all pupils. Additional messages will be added regarding how long the incident may last, and any other relevant information such as traffic 	email Portsmouth CC Intranet

Stage Fou	r - Take PIT	s tablets		
stage 4 - take PITs tablets	anytime	heads of service / managers	 <in above="" addition="" all="" messages="" staff="" the="" to=""></in> At this stage, you should be able to account for all of your staff and should have ensured anyone who was working in the open air in the affected area is now safely inside a council building outside of the area. If you have staff working inside a building in the affected areas, you must ensure they have been contacted and advised to remain inside. Make sure they know they must close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. Directors and managers should continue to manage their areas in accordance with business continuity and emergency response plans, keeping SMT informed of any key decisions. You should be mindful of the fact that the council needs to continue to deliver essential services and manage the incident and staff should not be sent home without consultation with SMT. 	email to CTB and third tier forum
stage 4 - take PITs tablets	anytime If the incident happens later in the day, it may be advisable to send non- essential staff home.	staff working inside a building in the affected area	 If you are working inside a building in the affected area, stay in the building. Close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. Stay inside and wait for further information, either through the council's email and intranet or from your manager. PITs tablets should have been provided to you. The tablets will have been delivered to the building you are working from. If you have not received PITs tablets, please contact your manager for advice. You should now take the PITs tablets. You can find the information being provided to the public on the 	Portsmouth CC Intranet and email managers to contact directly by phone

Stage Four	Stage Four - Take PITs tablets							
			website at www.portsmouth.gov.uk or on twitter @portsmouthtoday or www.facebook.com/portsmouthcitycouncil					
stage four - take PITs tablets	anytime If the incident happens later in the day, it may be advisable to send non- essential staff home.	staff working outside in the affected area	 <in above="" addition="" all="" messages="" staff="" the="" to=""></in> There should not be any staff working outside in the affected area. If you are still outside, you must take shelter immediately by returning to the Civic Offices or other appropriate council office. Contact your manager as soon as possible. 	Portsmouth CC Intranet and email managers to contact directly by phone				

Stage Five - R	lelease		
release If the hap later day, be a to so esse	ytime ne incident opens er in the v, it may advisable send non- sential ff home.	all staff and councillors	 As you know from our earlier messages, the MOD has announced a problem has occurred on board a nuclear powered vessel at Portsmouth Naval Base. We (PCC) are continuing to work with the emergency services, the MOD and our health colleagues to deal with the incident. The MOD has now confirmed that some radioactive material from the vessel has been released into the atmosphere. There is no danger whatsoever of a nuclear bomb type explosion. There is a very small risk to health if the radioactive particles are inhaled. Only the following area of the city is affected <insert area="" link="" map="" of="" to="">. There is no risk to those in other areas.</insert> Potassium iodate tablets (PITs), which prevent the thyroid from absorbing hazardous material, have already been distributed to residents (and staff???) in the affected area and residents have been advised to take them. That advice is now being repeated. In addition to taking potassium iodate tablets, anyone in the affected area is still advised to go in, stay in and listen for further information. If you have children at school or nursery in the affected area, please do not attempt to collect them. The school will look after them until the incident is over and will ensure all the children take the potassium iodate tablets. You can find our current advice for the public on the council website <insert link=""> or by following us on twitter @portsmouthtoday or on www.facebook.com/portsmouthcitycouncil</insert> We will continue to keep staff informed via Portsmouth CC

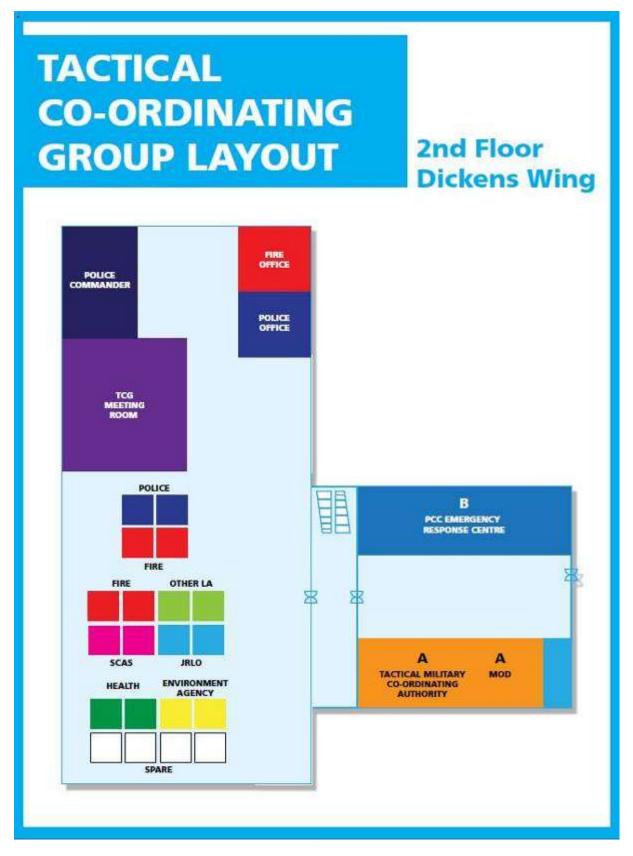
Stage Five	e - Release			
			 Intranet and the council's email system. If you are not in the affected area, you do not need to take any action and can continue to work as normal <note: and="" change="" close="" day="" end="" home="" if="" is="" it="" may="" message="" of="" send="" staff="" the="" this="" to="" want="" we=""></note:> Additional messages in here about expected duration of the incident, impact on traffic and other transport in the city, and any other relevant staff information. 	
stage five - release	anytime If the incident happens later in the day, it may be advisable to send non- essential staff home.	heads of service/ managers	 In addition to the all staff messages above> At this stage, you should be able to account for all of your staff and should have ensured anyone who was working in the open air in the affected area is now safely inside a council building outside of the area. If you have staff working inside a building in the affected areas, you must ensure they have been contacted and advised to remain inside. Make sure they know they must close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. You should have made sure they have been contacted to check they have received their PITs tablets and no the advice is to take the PITs tablets immediately. Directors and managers should continue to manage their areas in accordance with business continuity and emergency response plans, keeping SMT informed of any key decisions. You should be mindful of the fact that the council needs to continue to deliver essential services and manage the incident and staff should not be sent home without consultation with SMT. 	email
stage five - release	anytime If the incident happens later in the	staff working inside the affected	 in addition to the all staff messages above> If you are working inside a building in the affected area, you must stay in the building. 	Portsmouth CC Intranet and email managers to

Stage Five	- Release			
	day, it may be advisable to send non- essential staff home.	area	 Close all the doors and windows and turn off fires, fans and ventilation systems drawing in air from outside. Stay inside and wait for further information, either through the council's email and intranet or from your manager. You should have received PITs tablets, which have been distributed throughout the affected area. If you have not received your PITs tablets, please contact your manager You can find the information being provided to the public on the website at www.portsmouth.gov.uk or on twitter @portsmouthtoday or www.facebook.com/portsmouthcitycouncil 	contact directly by phone
stage five -	anytime	staff	<in above="" addition="" all="" messages="" staff="" the="" to=""></in>	Portsmouth CC
release	If the incident happens later in the day, it may be advisable to send non-essential staff home.	working outside in the open air in the affected area	 There should not be any staff working outside in the affected area. If you are still outside, you must take shelter immediately in the nearest available public or council building. Contact your manager as soon as possible. PITs tablets have been distributed in the affected area. If PITs tablets are not available to you, you call your manager immediately for advice. If you have PITs tablets and haven't already taken them, take them immediately. 	Intranet email managers to contact directly by phone

Part 2

Part 2 Chapter 4 Layout of TCG in Portsmouth City Council

2.4 Layout of TCG in Portsmouth City Council



Part 2 Chapter 5 TCG and SCG agendas

2.5 TCG and SCG agendas

2.5.1 TCG agenda

R	EACTOR EMERGENCY PLAN	Tactical Coord	inating Group (TCG) Agenda		
	Nomination/ confirmation of Lead				
1	Identify minute taker, action taker, and nominate responsibility to compile/update the SITREP (see ERA Annex B for all TCG documentation and action cards)				
2	Introduction of attendees, roles an		,		
	Agree upon location of TCG/ cons				
3	g		part B5 of the <u>ERA</u> for TCG venue options		
4	Declaration of items for urgent atto Are resources under pressure? Are addi	tional resources requ	uired?		
5	Decisions on items for urgent atte Breakout time to action urgent items as a		irm how long / reconvene time		
		rmation and intel	ligence		
	Update on situation				
	What has happened?		ANE message? ident be declared, based on the scale, ct of the incident? (See <u>ERA</u> part B6) members on activity / assigned actions		
6	What is happening now?		members on activity / assigned actions Ts distribution		
	What is being done about it? What is the strategy from SCG (if active and different from Item 9)? Other considerations				
7	Additional SITREP information fro		members		
•	Not covered in the METHANE. Are resou		e? Are additional resources required?		
8	Identification of other agencies wh Consider inviting Category 2 Responders		to the response		
		d Develop a Work	king Strategy		
9	Agree/ review tactical aim & object Suggested objectives: Save and protect life Relieve suffering Contain the emergency – limit esca Protect health & safety of personne Safeguard the environment; Protect	tives lation/spread I t property	 Promote and facilitate community self-help Facilitate community recovery (physical, social, economic & psychological) Facilitate investigations and inquiries (preserve the scene and 		
	Maintain and restore critical service		manage records)		
	Maintain normal services at an application Power Consider Power	ers, Policies and F	Evaluate & identify lessons Procedures		
	Emergency Plans	ers, Folicies and F	Tocedures		
10	Which <u>Emergency Plans</u> are we working Should <u>Evacuation and Shelter</u> be consider				
11	Communication with the Public Are there any issues to escalate to SCG If asked, what should responding staff sa	ay to the public/ med	lia?		
4.0		tions and Conting	gencies		
12	Discuss and agree on tactical deci				
13	Consideration to be given to reque (Pass requests to S		ort/ mutual aid Holding Area information see <u>ERA</u> part E1)		

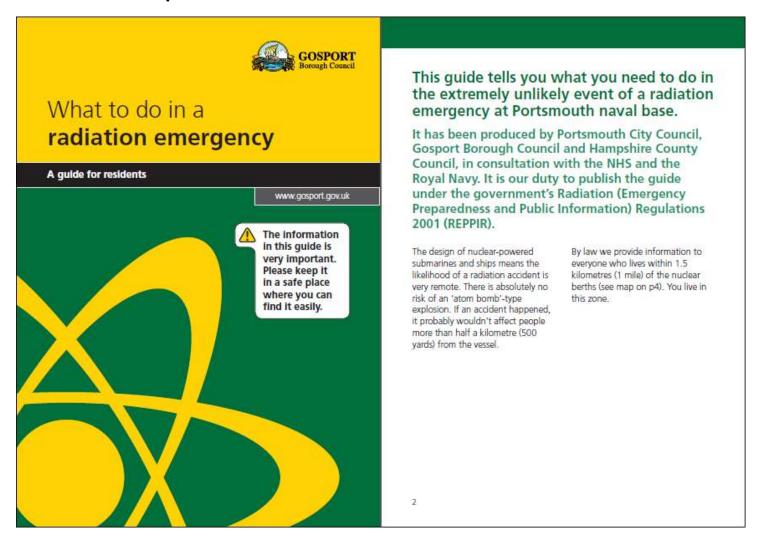
	Take Action and Review What Happened
14	Allocation of tactical actions
14	ResilienceDirect – review of actions put on RD
15	Communication with RWG / SCG (if active)
15	Communication with RWG / SCG (if active) Reporting Schedule - suggest timescale/ how long? Communicate/agree with RWG/SCG.
16	Any other business
17	Date, Time and Location of next meeting

2.5.2 SCG agenda

P	EACTOR EMERGENCY PLAN S	Strategic Coordina	ating Group (SCG) Agenda
N	Nomination/ confirmation of Lead A		
1	Identify minute taker, action taker, and not (see <u>ERA</u> Annex C for all SCG documents	minate responsibility to d	
2	Introduction of attendees, roles and	,	
3	Agree upon location of SCG/ consid	der whether the locat	ion is still appropriate t C5 of the ERA for SCG venue options
4	Declaration of items for urgent atter Are resources under pressure? Are addition	ntion	<u> </u>
	Decisions on items for urgent atten		
5	Breakout time to action urgent items as ag		ow long / reconvene time
	Gather info	rmation and intellige	nce
	Update on situation		
	What has happened?	What is the METHANE	
			nt be declared, based on the scale,
			the incident? (See <u>ERA</u> part C6)
			he bounds of the reference accident
6		(question to MOD)	
	What is happening now?		nbers on organisation activities
		Update from TCG(s). Update from LA on PI	To distribution
	What is being done about it?		/ been agreed? Is it being
	What is being done about it?		er levels of command aware?
		Countermeasures tem	
7	Additional SITREP information from		
1	Not covered in the METHANE. Are resour	rces under pressure? Are	e additional resources required?
8	Identification of other agencies who	should be represen	ted in the SCG
0	Consider inviting Category 2 Responders		
		d Develop a Working	
	Agree/ review tactical aim & objecti	<u>ves</u>	Promote and facilitate
	Suggested objectives:		community self-help
	Save and protect life		 Facilitate community recovery
	Relieve suffering		(physical, social, economic &
9	 Contain the emergency – limit escala 	ation/spread	psychological)
	Protect health & safety of personnel		Facilitate investigations and
	Safeguard the environment; Protect	property	inquiries (preserve the scene
	Maintain and restore critical services		and manage records)
	Maintain normal services at an appro-		Evaluate & identify lessons
		ers, Policies and Proc	edures
	Emergency Plans	ro, ronolos ana rroc	
10	Which Emergency Plans are we working t	to (e.a. Multi Aaencv Flo	od Plan)?
	Should Evacuation and Shelter be consider		
	Media Strategy		
11	Set/ review the media strategy		
	Consider what responding staff should sag	y to the public/ media if a	asked – communicate to TCG
12	Recovery		
	Consider early establishment of LRF Com		
	·	tions and Contingen	cies
12	Discuss and agree on strategic dec		
13	Consideration to be given to reques	,	•
		<mark>nd Review What Hap</mark>	pened
14	Allocation/review of strategic action	าร	

	ResilienceDirect – review of actions put on RD
15	Communication with RWG / TCG (agree reporting schedule)
13	Reporting Schedule - suggest timescale/ how long? Communicate/agree with RWG/TCG(s).
16	Any other business
17	Date, Time and Location of next meeting

2.6 Gosport and Portsmouth public information leaflets



Advice on what to do in an emergency is simple:



Go in, Stay in, Tune in

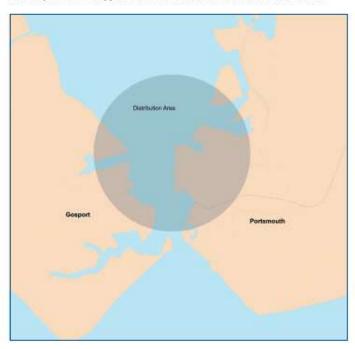


The information in this guide is very important. Please keep it in a safe place where you can find it easily.

3

Map of affected area

This map shows the approximate area in which this leaflet is distributed.



- 1. In this guide 'Portsmouth naval base' means the areas at HMS Nelson owned by the MOD and Her Majesty's Naval Base (HMNB), Portsmouth, as well as the Port of Portsmouth.
- 2. We show the affected area as a circle to make it easier to understand. The actual zone goes out to the nearest natural or landscape boundary.

What could happen in a radiation emergency?

Usually, all radioactive material would be contained in the submarine or ship. In some circumstances it is possible that it could escape and affect areas close to the vessel or downwind of it.

In such an emergency, people in the naval base who were very close to the vessel could be exposed to gamma radiation, which is very similar to x-rays.

The main risk to the public would be if very tiny radioactive particles were released into the air. They might be carried by the wind and could settle on people or objects that people were in contact with.

You could be exposed to radioactive particles by:

- · Inhaling contaminated air or
- · Having contact with contaminated surfaces
- · Eating or drinking contaminated food or water
- · Direct exposure from particles as they are blown along in a 'plume'

How will I know about an emergency?

You will know if there is a radiation emergency because the police will tell you, or you will hear or see a news announcement. The naval base siren will also be used - a rising and falling wailing note.

What should I do if there's an emergency?

Follow the Go in, Stay in, Tune in advice.

Go in

In an emergency the best thing to do is go indoors.

- · Close all your doors and windows to reduce the risk of contamination entering the building.
- Switch off fans, ventilation equipment or appliances such as central heating boilers and gas fires, which draw air from outside. This will help stop any contamination entering the building.
- · Put out or damp down open fires

Stay in

- · Don't go outside, where radiation could be higher, unless you're told to.
- . Keep pets indoors, to stop them bringing possible contamination into the house.
- If your children are at school, the school will look after them - going to collect your children may expose you and them to radiation.

Tune in

- · During an emergency, information and advice will be given out on local radio and TV programmes, and on the internet.
- · Keep listening and watching
- Follow any instructions you

Announcements will be on TV and radio stations and websites including:

- BBC TV
- ITV Meridian
- Radio Solent (96.1 FM, 999 MW)
- Heart FM (97.5 FM)
- Capital (103.2 FM)
- Wave (105.2 FM)
- The Breeze (107.4 FM)
- Sam FM (106 FM)
- Express FM (93.7 FM)
- · and local digital stations

More information:

We will publish up-to-date information and advice on www.gosport.gov.uk (the Gosport Borough Council site).

Helpline:

In a radiation emergency you can call our helpline, 023 9254 5321

Health issues:

Call NHS Direct on 111 or go to www.nhsdirect.nhs.uk

Take potassium iodate tablets if you're told to

Exposure to radioactive material can be hazardous. But taking potassium iodate tablets minimises the health risks, by preventing the body absorbing certain harmful material.

Local authority staff will deliver the tablets to all homes in the affected area. Each household will receive a strip of 10 tablets (enough for five people) and an information pack. If you need more tablets then ask the person who delivers them or phone 023 9254 5321.

The authorities will tell you when to take the tablets, so keep tuned to the local radio stations, TV, our website and social media sites.

Where appropriate, children at school will be given potassium iodate tablets.

After taking the tablets you should still stay indoors. The tablets help to protect you, but staying inside is still the best protection.

If you have friends or relatives more than 1.5km (1 mile) downwind from the base there will be no immediate need for them to take the tablets. In the hours following an accident the emergency responders will decide if the 1.5km zone should be expanded, based on contamination levels. It's unlikely they will have to take this step.

Don't use the phone unless you urgently need help

In an emergency, mobile and landline networks might be overloaded. If you must make a call, please keep it short.

Don't leave the area unless you're advised to

You will be much safer indoors.

There will probably be no need for an evacuation. But if you are advised to leave, follow the advice you're given.

If you do have to leave, you should stay with friends or relatives outside the affected area. If you don't have anyone you can stay with, we will make special arrangements to look after you in a safe place.

Use your own transport. If you don't have transport, you'll be told where to meet and transport will be provided.

Entry to evacuated areas will be carefully controlled until the emergency has ended.

If you are advised to evacuate, use this checklist:

- Get your family and pets together.
- Get a large bag or suitcase and pack the following things.
- 1. Warm clothing and bedding.
- Food that your family and pets need.
- Medicines that your family needs.
- Baby food, clothes and nappies if needed.
- Private documents and valuables, such as bank books and passports.
- Books and toys for children if needed.
- Make sure fires are out and that cookers, ventilation equipment, fans, TVs, electric fires and other appliances are switched off and unplugged.
- Lock up your house and any other buildings and leave.
- Use the space here to write down any other things that you think you will need to remember:

More information

Arrangements for schools

The following schools and nurseries could be affected:

- Hopscotch Nursery
- HEDCA

They have potassium iodate tablets for all the children and staff in their care. In the event of an accident the school will look after the children – going to collect your children may expose you and them to radiation. When it is safe for children to leave the building the school will contact you.

Schools and nurseries more than 1.5km from the naval base will be told about any accident by the council.

Schools and nurseries will look after any pupils whose parents live within the 1.5km zone and who may not be able to collect them.

Radiation

Radiation is a form of energy we are exposed to all the time, from natural and man-made sources. In some forms it can be harmful to humans and other living things because it can damage cells. This can result in damage to organs or other long-term effects.

Food and drink

It is unlikely that tap water, food or drink in your house that is covered or sealed, will be affected. More information will be given out on the news as the incident goes on.

When the immediate danger has passed

You should keep listening and looking for announcements and updates on the news.

9

How to find out more

If you would like to find out more about the Ministry of Defence's nuclear-powered vessels, visit the Royal Navy website:

www.royalnavy.mod.uk

If you would like to find out more about the emergency plan for the area around the naval base you can find a copy of it on the Gosport Borough Council website at

www.gosport.gov.uk. Search for Reactor Emergency Plan.

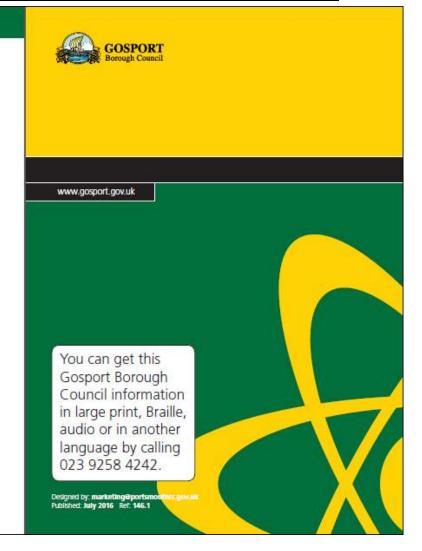
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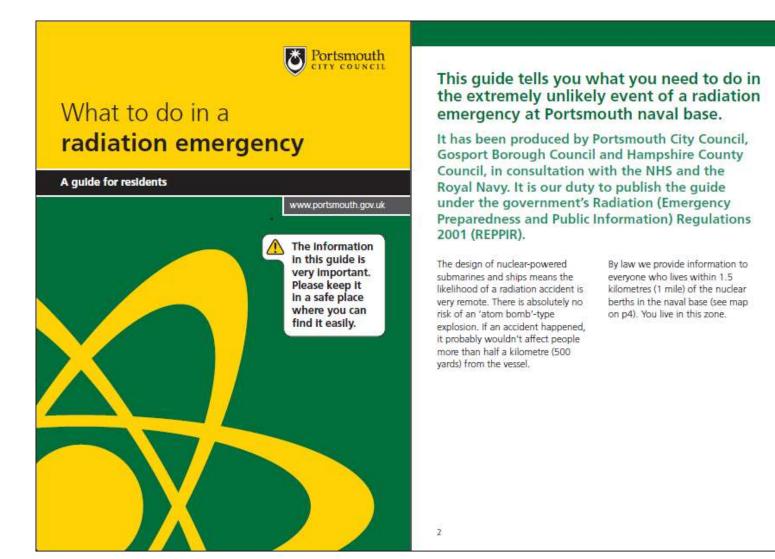
- Public Health England: www.gov.uk/government/ organisations/public-healthengland
- Health and Safety Executive: www.hse.gov.uk

More copies of this leaflet are available by:

- Writing to: Emergency Planning Gosport Borough Council Town Hall High Street
 PO12 1EB
- Emailing enquiries@ gosport.gov.uk
- Calling (023) 9258 4242

You can also read and download leaflets from our website at www.gosport.gov.uk





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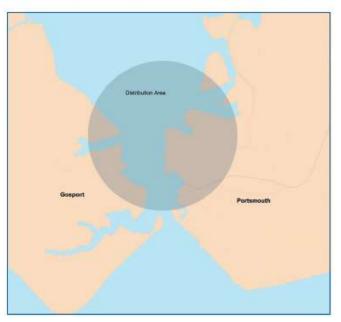


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More information:

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 - Medicines that your family needs
 - Baby food, clothes and nappies if needed.
 - Private documents and valuables, such as bank books and passports.
 - Books and toys for children if needed.
- Make sure fires are out and that cookers, ventilation equipment, fans, TVs, electric fires and other appliances are switched off and unplugged.
- Lock up your house and any other buildings and leave.
- Use the space here to write down any other things that you think you will need to remember:

More information

Arrangements for schools

The following schools and nurseries could be affected:

- · St George's Primary School
- · Portsmouth Grammar School
- YMCA Nursery Portsea
- University Nursery

They have potassium iodate tablets for all the children and staff in their care. In the event of an accident the school will look after the children – going to collect your children may expose you and them to radiation. When it is safe for children to leave the building the school will contact you.

Schools more than 1.5km from the naval base will be told about any accident by the council.

Schools will look after any pupils whose parents live within the 1.5km zone and who may not be able to collect them.

Radiation

Radiation is a form of energy we are exposed to all the time, from natural and man-made sources. In some forms it can be harmful to humans and other living things because it can damage cells. This can result in damage to organs or other long-term effects.

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If you would like to find out more about the emergency plan for the area around the naval base, visit the Portsmouth City Council website at www.portsmouth.gov.uk and search Reactor Emergency Plan.

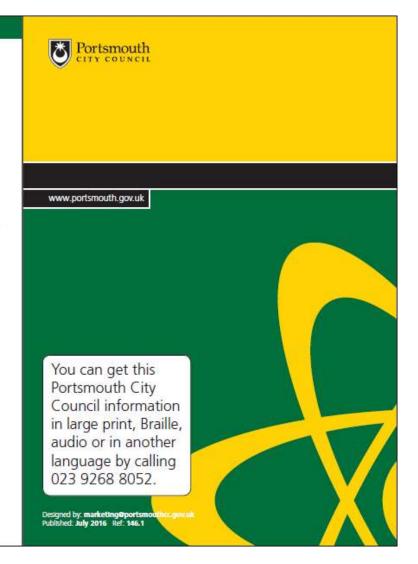
You can get more information on radiation and the REPPIR regulations from these websites:

- · Public Health England: www.gov.uk/government/ organisations/public-healthengland
- · Health and Safety Executive: www.hse.gov.uk

More copies of this leaflet are available by:

- · Writing to: **Civil Contingencies Unit** Portsmouth City Council Civic Offices **Guildhall Square** Portsmouth PO1 2AL
- Emailing emergency.planning@ portsmouthcc.gov.uk
- Calling (023) 9268 8052

You can also read and download leaflets from our website at www.portsmouth.gov.uk



Part 2 Chapter 7 DEPZ area information

2.7 DEPZ area information

Local information is available from many sources. The information in this annex is a summary of data available through local authority GIS teams and partner agencies. It should be used for planning purposes only. Some data is volatile and cannot be plotted in a static GIS format, for example vulnerable people. In the event of an accident, real time data should be obtained to ensure currency.

DEPZ Population

Night time residents 9621 Working population 18 651

Transport routes and facilities

- Portsmouth International Port
- The Hard interchange
- Portsmouth harbour mainline railway station
- Isle of Wight ferry and fast cat terminals
- Gosport ferry terminus (both sides of the harbour)
- Gosport bus terminal

Attractions

- Gunwharf Quays shopping, entertainment, marina and residential
- Spinnaker Tower
- Historic dockyard tourist site
- Victoria Park
- St John's Roman Catholic cathedral
- West end of Cascades shopping mall
- Gosport High Street shopping precinct Gosport Marina (Premier Marinas) 520 berths
- Clarence Marina 200 berths

Explosion! Museum

Councils

Education establishments and nurseries

- Portsmouth University teaching and residential sites
- St George's Primary School
- YMCA Nursery Portsea
- Top Tots, John Pounds Centre
- University nursery (Milldam building, Burnaby Road)
- Portsmouth Grammar School
- Hopscotch day nursery, Gosport
- Child care providers: contact Portsmouth City Council Education Childcare Development Floor 2, Core 1, and Hampshire County Council's Children's Services 0300 555 1373

Residential and sheltered accommodation

- Mill Gate House, PO1 3BB
- Sarah Robinson, Queen Street, PO1 3JA

Health facilities

Dr Audrey Stewart	55 Broad Street	Portsmouth	PO1 2JD
Medical Centre	Military Road	Portsmouth	PO1 3ND
Surgery, Nuffield Centre	St Michael's Road	Portsmouth	PO1 2BH
John Pounds Medical Centre	3 Aylward Street	Portsmouth	PO1 3DU
Surgery, 17 Brunswick House	Queen Street	Portsmouth	PO1 3GB
Portsea Dental Care Ltd	John Pounds Centre	23 Queen Street	PO1 3HN
Waterside Medical Centre	Mumby Road	Gosport	PO12 1BA
Day Lewis pharmacy	Mumby Road	Gosport	PO12 1AE
Morrisons pharmacy	Walpole Road	Gosport	PO12 1NQ
Specsavers	High Street	Gosport	PO12 1DU

opticians			
Boots the	High Street	Gosport	PO12 1DU
Chemist Ltd			
Vision Express	High Street	Gosport	PO12 1DS
Scrivens Opticians & Hearing Care	High Street	Gosport	PO12 1DS

Part 2 Chapter 8 Outline Planning

2.8 Outline Planning

2.8.1 Local information

Local information is available from many sources. The information in this annex is a summary of data available through local authority GIS teams and partner agencies. It should be used for planning purposes only. Some data is volatile and cannot be plotted in a static GIS format, for example vulnerable people. In the event of an accident, real time data should be obtained to ensure currency.

The need to implement countermeasures in the EEPZ would only occur in the highly unlikely event of large release of fission products to the atmosphere. The decision to extend countermeasures beyond the DEPZ would be based on a technical assessment of the condition of the reactor, and potential exposure of the public to contamination. The probability of a large release happening is considered to be very low, and government guidance requires outline planning only.

The pages at the end of the annex contain geographical and listed information showing the following categories out to 5kms:

- Population by 500m increments out from the berth. The figures are for the whole zone in all directions. In the event of an accident GIS would plot the downwind zone and determine the population figures.
- Schools
- Local health facilities, including doctors
- Agencies working with vulnerable groups.

2.8.2 Resources

 Local authorities in HIOW LRF have a mutual aid agreement if support is required

- Hampshire Constabulary would automatically engage with regional operations departments and the Police National Information Coordination Centre to request additional resources.
- HFRS has mutual aid arrangements for support at incidents with neighbouring forces (Dorset, Wiltshire, Royal Berkshire, Surrey and West Sussex). Protocols for requesting mutual aid are made in line with the Fire Service Act 2004 sections 13 and 16. The service can also request the deployment of national and regional assets such as mass decontamination units and high volume pumping equipment. The service has an appliance degradation plan in case of a significant reduction in personnel through sickness, industrial action etc.
- SCAS has mutual aid arrangements with other ambulance services. The decision to request additional resources will be based on:
 - Number and type of casualties
 - Type and scale of incident
 - Likely duration of incident
 - o Rate of presentation of casualties from inner cordon or hot zone
 - Level of resourcing across the service
 - Current demand across the service
 - Current capacity within the health economy
- The naval base holds 300 000 PITs and the NHS/PHE can access the national stock if required.

Rest Centres

Portsmouth City Council has 47 prepared rest centre locations across the city. Total seating capacity is 15 215, sleeping 7 165. Portsmouth City Council is responsible for selecting and running rest centres in the council's area, as detailed in the council's Rest Centre Plan.

The key driver for rest centre availability is the staff required to run it. In normal times Portsmouth City Council can run two centres concurrently with trained rest centre staff, and potentially more by splitting the team and augmenting with other non-trained council staff and the voluntary sector. If more rest centres were required then the council would seek mutual aid from neighbouring local authorities.

Hampshire County Council has a rest centre capacity of 27 540. Hampshire County Council is responsible for selecting and running rest centres in their area, as detailed in the council's Prepared Rest Centre Plan.

Major medical facilities within 5kms

Councils

- Queen Alexandra's, Cosham (A&E)
- St Mary's, Milton (no A&E, includes a walk-in treatment centre for minor injuries)
- St James', Milton (mental health trust, no A&E)
- Gosport War Memorial (no A&E)
- Guildhall Walk (walk in treatment centre)

Receiving hospitals outside 5kms

- Southampton General Hospital (Regional Trauma Centre)
- Princess Anne Maternity Hospital (same location as SGH) (No A&E)
- Bupa Southampton (Chalybeate) Hospital (No A&E)
- Royal South Hants Hospital (no A&E, includes walk-in centre)
- Western Community Hospital (No A&E facilities)
- Bitterne Health Centre (no A&E, includes a walk-in treatment centre)
- Hythe Hospital (No A&E)
- Royal Hampshire County Hospital, Winchester
- North Hants Hospital, Basingstoke

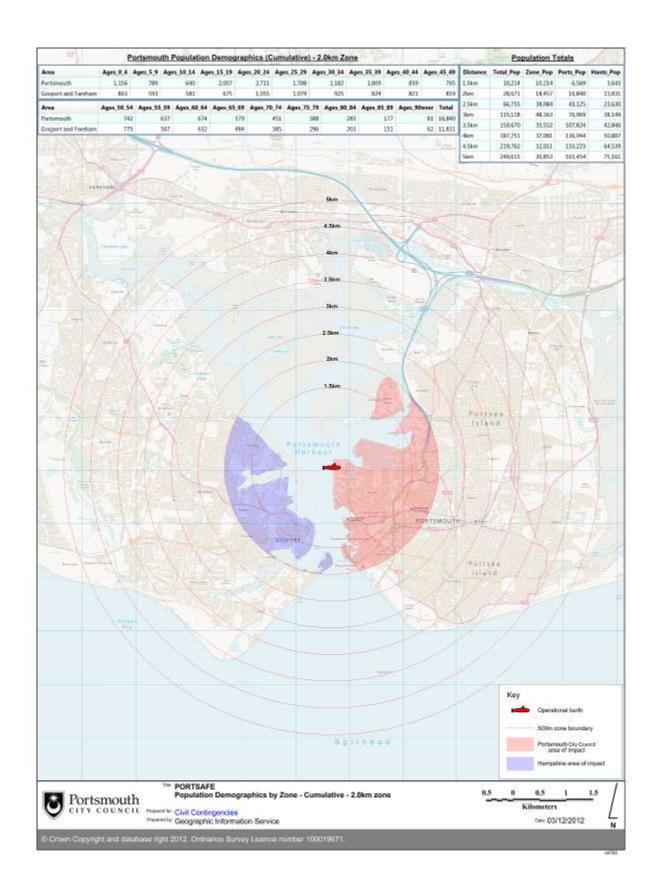
Major transport routes and facilities within 5kms

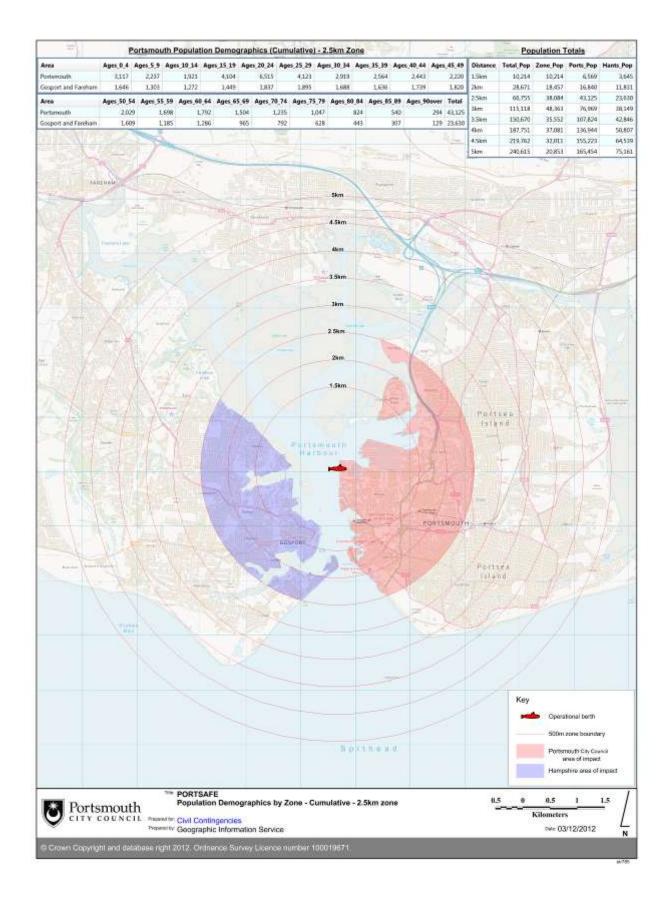
- All roads on Portsea Island
- Portion of M27 between Paulsgrove and Hilsea
- M275
- A27 from Portsbridge through Portchester
- A32 into Gosport
- Main rail line from Portsmouth Harbour to Portchester

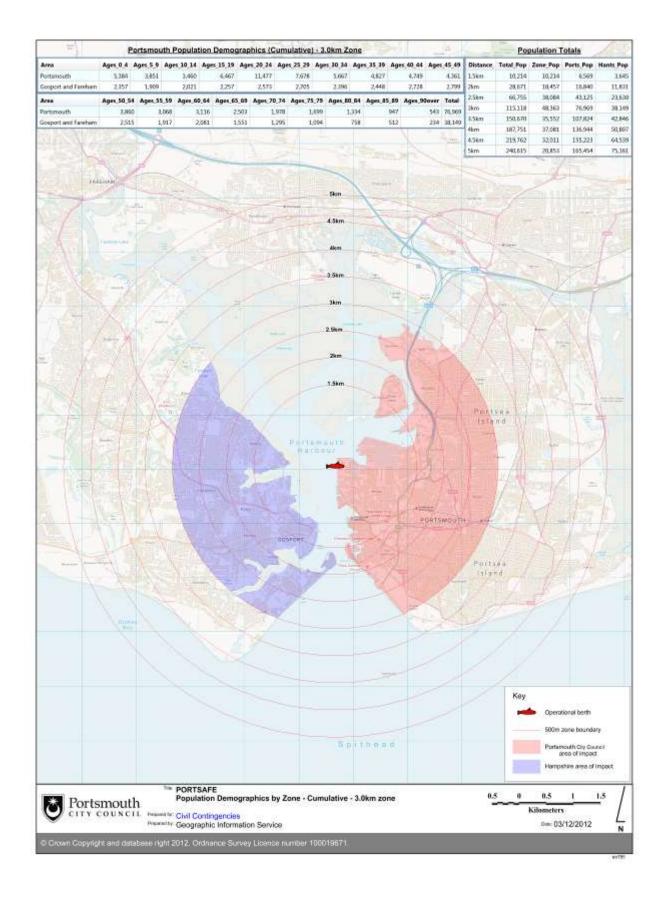
Public information for an extendibility zone

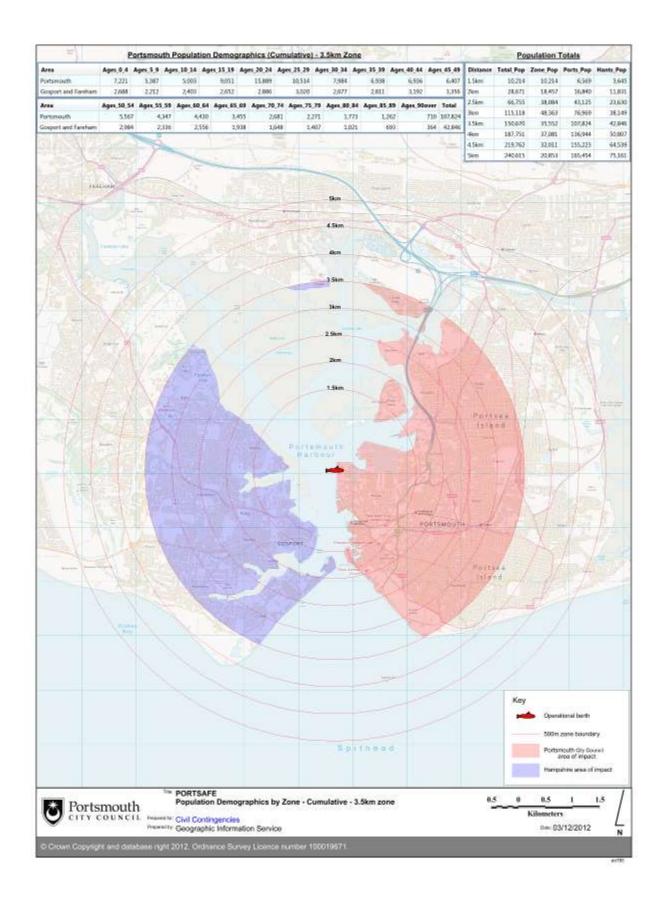
Public information may be needed beyond the DEPZ to provide public re-assurance or advice to the public if countermeasures are extended. The pre-scripted statements at **Chapter 3** can be used and the media cell will identify the appropriate transmission mechanism.

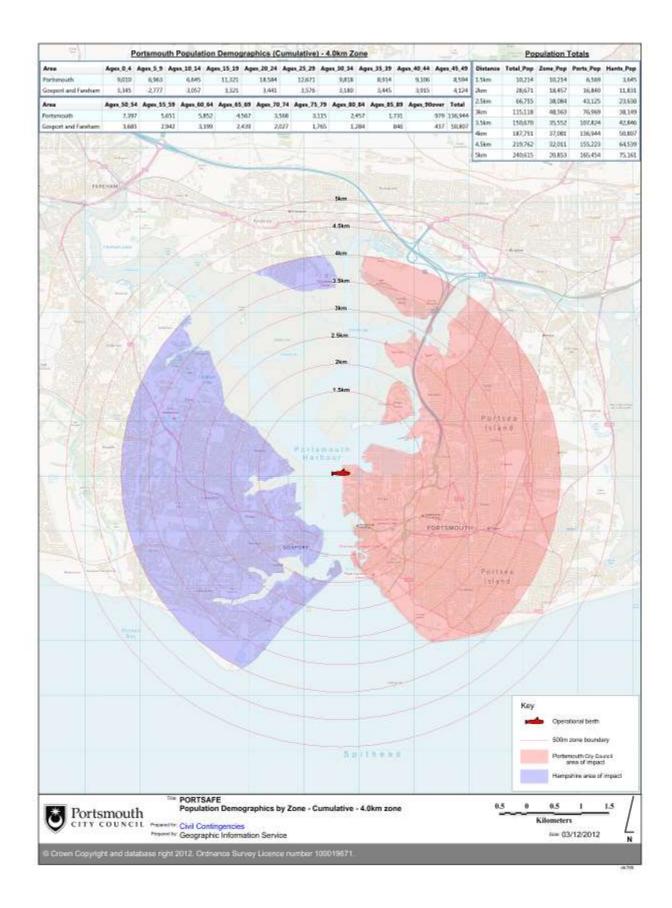
2.8.3 Demographics

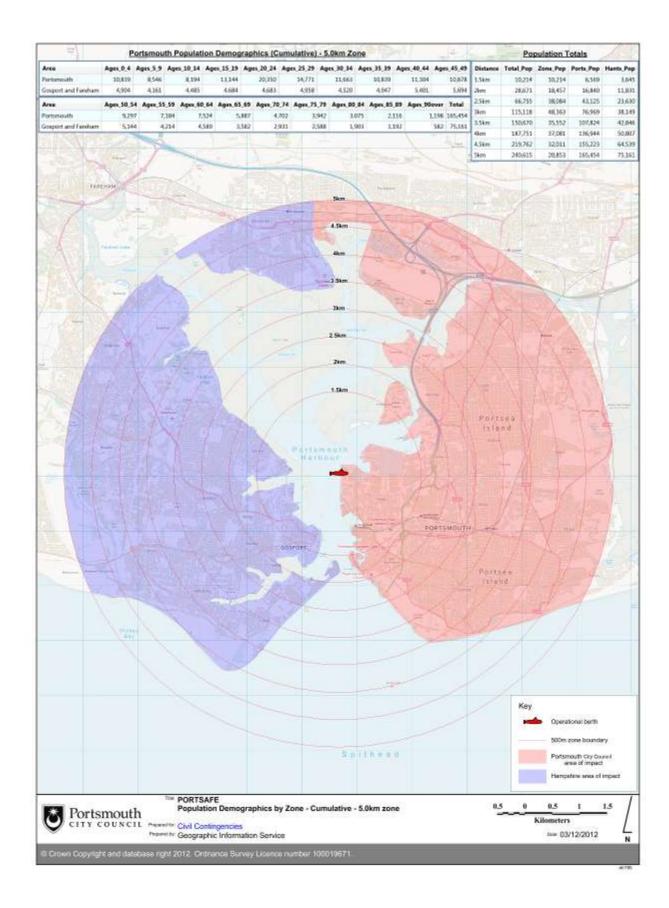


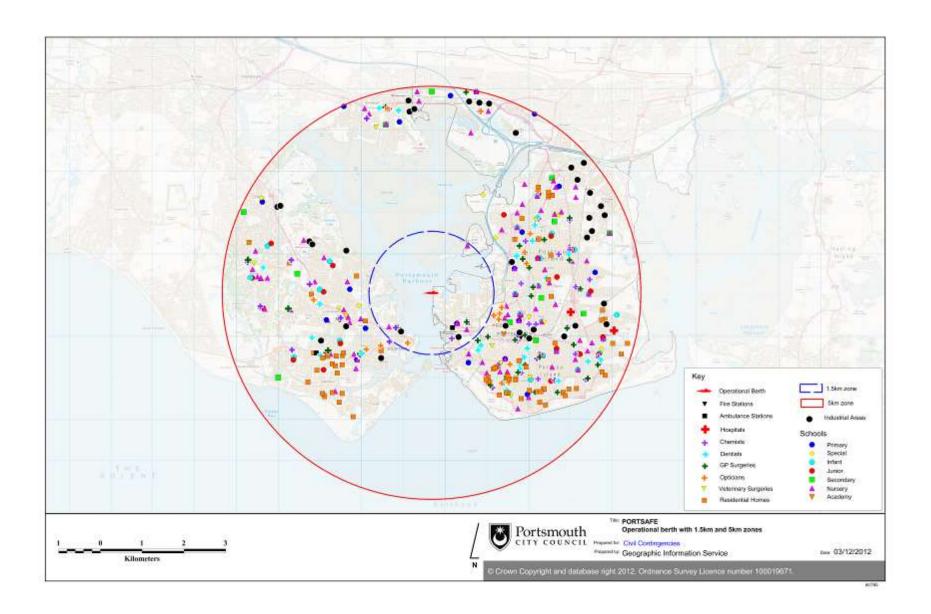












Agencies working with vulnerable people: Portsmouth

Children and young	neonle			
Group	реоріс	Agency	1	
LEA schools		PCC		
Special educational r	needs	PCC		
Non-LEA schools		Direct th	nrough head te	eacher or
Creches/playgroups/i	nurseries	Direct, o	or through PC0 re Service	Early Years
Homeless young people in supported accommodation		The Foyer 19 Greetham Street PO1 4LH Up to 54 residents aged 16-25 with low to medium support needs		
PCC Children and F	amilies Social C			
Potentially Vulnerable Individual/Group	Examples and I	Notes	Target throuse following Organisation In Office Hours	
Children at Risk/Vulnerable Children/Children in the Care of the Local Authority	Those children/y people who are after away from (foster care, child home etc), any o	looked home dren's	CSC Police	Out of Hours Service (shared with HCC)
(Children's Social Care - CSC)	believed subject abuse or neglect found abandone	to t or		Police

others already in receipt of services from CSC, children with disabilities requiring assessment

CSC

CSC

CSC

Police

Children already Looked After (in foster care,

Children abandoned, lost or orphaned

Out of Hours

Out of Hours Service (shared with

Out of Hours Service

(shared with

Service (shared with

HCC)

HCC)

HCC)

children's home etc)

Foster Carers

		Police	
Care Leavers already receiving financial	CSC	Out of Hours	
assistance (weekly personal allowance)		Service	
		(shared with	
		HCC)	
Children with Disabilities already in receipt of	CSC	Out of Hours	
services from CFSC and those requiring		Service	
assessment		(shared with	
		HCC)	
Young Persons 16+ who are homeless	Housing	Housing Out	
	Department	of Hours	
V 0 (V V V V V V V V V V V V V V V V V		Service	
Young Carers (support for YP who is the carer	Young	Out of Hours	
NOT for medical assistance or services to an	Carers	Service	
adult with a disability)	Centre	(shared with HCC)	
Children disclosing abuse or other disclosing	CSC	Out of Hours	
on their behalf		Service	
	Police OR	(shared with	
	GP/Hospital	HCC)	
	if injured		
		Police	
Unaccompanied Asylum Seeking Children	CSC	Out of Hours	
		Service	
		(shared with	
		HCC)	
Contacts	Telephone n		
Children Social Care (Office Hours)	023 9283 911		
Out of Hours Service	0300 555 137	3	
Police Main Switchboard	101	70 / 00000	
Foster Carer Support	023 9268 807		
	688077 (Office	28 and ask for	
	the on call du		
	hours)	ty (Out of	
Housing Options Department (Office Hours)	023 9283 498	39	
Housing Options Department (Onte Flours)	023 9282 424		
Young Carers Service	023 9285 186		
	6780		
Skye Close Children's Home			
Tangier Road Children's Home			
Beechside Children's Home			

Homeless	
Homeless	Central Point Day Centre
	Central Point Day Centre
	PCC Housing Options/out of hours
	service
Night shelter	Mill House, Milton Road
Housebound	
	GPs surgeries – access through NHS
	Portsmouth
Individuals cared for by relatives	
Those receiving a health service	GPs surgeries – access through
Those receiving a health service	Clinical Commissioning Group
Those receiving social care	PCC Adult Social Care Help Desk
Those receiving social care	023 9268 0810
	Out of hours service
	0300 555 1378
Carers groups	Portsmouth Disability Forum
Odicio gioupo	023 9281 5266
There is no umbrella group representing	www.p-d-f.org/
carers' support organisations.	<u>www.p-u-1.01g/</u>
Mental/cognitive impaired	
Those receiving a health service	Solent NHS Trust
Those receiving a nearth service	Director on call
	GPs surgeries – access through NHS
	Portsmouth
Those receiving social care	PCC Adult Social Care Help Desk
These reserving sesial care	023 9268 0810
	Out of hours service
	0300 555 1378
Mobility impaired	
Those receiving a health service	Solent NHS Trust
ŭ	Director on call
Those receiving social care	PCC Adult Social Care Help Desk
l lieu i cooirnig coolai caic	023 9268 0810
	Out of hours service
	0300 555 1378
Older people	·
Those receiving a personal health	Solent NHS Trust
service	Director on Call
Those receiving social care	PCC Adult Social Care Help Desk
	023 92 68 0810
	Out of hours service
	0300 555 1378
Pregnant women	
	GPs surgeries – access through
	Clinical Commissioning Group
Telecare/Aid calls	

Vulnerable residents who have a PCC	Office hours:
Telecare alarm system installed in their property.	Local area housing office
The request for service is initiated from a call centre at Southampton (or Bristol for some 1 st Wessex tenants)	 Independent living service) hours (currently 9pm to 6am) 023 9268 0810
	Out of office hours:
	Out of hours service 023 9282 4244
Temporarily or permanently ill	
Those receiving a health service	Solent NHS Trust Director on Call
	GPs surgeries – access through Clinical Commissioning Group
Those receiving social care	PCC Adult Social Care Help Desk 023 9268 0810
	Out of hours service 0300 555 1378
Tourists - start here	
There is no one contact for every venue or hotel. Will require significant resource and widespread comms	Portsmouth Visitor Information Service 023 9282 6722 public number
message to achieve effective warning	Portsmouth Museums and Visitor
and informing.	Services 023 9282 7261
Travelling community	
There are no Local Authority permanent sites in Portsmouth.	, private authorised or unauthorised
There is a history of illegal encampment	s. Check with:

There is a history of illegal encampments. Check with:

Police Force Control Room Inspector PCC Community Wardens

For Gosport information contact Hampshire County Council Emergency Planning and Resilience Team.

Schools and Nurseries in the EEPZ - Portsmouth

Name	Street	Ward	Postcode	Zone
St George's Primary	HANOVER STREET	Charles Dickens	PO1 3BN	1.5km
YMCA Nursery Portsea	Union Street	Portsea	PO1 3BY	1.5km
University of Portsmouth Nursery	The Quadrant, Milldam, Burnaby Road John Pounds Community Centre, 23 Queen	Portsea	PO1 3AS	1.5km
Top Tots Day Nursery	Street	Portsea	PO1 3HN	1.5km
Little Whale Nursery (YMCA)	HMS Excellent	Whale Island	PO2 8ER	1.5km
St George's Nursery	St Georges Primary School, Hanover Street	Portsea	PO1 3BN	1.5km
ARK Dickens Primary Academy	TURNER ROAD	Charles Dickens	PO1 4PN	2km
St Jude's CE Primary	ST NICHOLAS STREET	St Thomas	PO1 2NZ	2km
Charter Academy	HYDE PARK ROAD	Charles Dickens	PO5 4HL	2km
Highbury College Bumble Bees Nursery	Highbury City Centre, 49 Arundel Street	Landport	PO1 1SA	2km
The Haven Nursery (NNI)	The Salvation Army, 17 Lake Road	Landport	PO1 4HA	2km
Roberts Day Nursery (NNI)	84 Crasswell Street	Landport	PO1 1HT	2km
The Portsmouth Grammar School Nursery	Portsmouth Grammar School, High Street	Old Portsmouth	PO1 2LN	2km
The Grammar School Reception Class	Portsmouth Grammar School, High Street	Old Portsmouth	PO1 2LN	2km
Charles Dickens Nursery	ARK Dickens Primary Academy, Turner Road	Buckland	PO1 4PN	2km
Flying Bull Primary	FLYING BULL LANE	Nelson	PO2 7BJ	2.5km
Arundel Court Primary	NORTHAM STREET	Charles Dickens	PO1 1JE	2.5km
Cottage Grove Primary	CHIVERS CLOSE	St Thomas	PO5 1HG	2.5km
ARK Ayrton Primary Academy	SOMERS ROAD	Charles Dickens	PO5 4LS	2.5km
St John's Catholic Primary	COTTAGE VIEW	Charles Dickens	PO1 1PX	2.5km
St Edmund's	ARUNDEL STREET	Charles Dickens	PO1 1RX	2.5km
The Harbour School (@ Stamshaw)	RANELAGH ROAD	Nelson	PO2 8 HA	2.5km
Paws Community Nursery	c/o Somers Park Primary School, Somers Road	Southsea	PO5 4LS	2.5km
Leapfrog Nursery	10 Yarborough Road	Southsea	PO5 3DZ	2.5km
Leapfrog Nursery School (NNI)	13 Yarborough Road	Southsea	PO5 3DZ	2.5km
St Jude's Nursery School	St Judes Youth Centre, Silver Street	Southsea	PO5 3BW	2.5km
Buckland Childrens Centre	Turner Road	Buckland	PO1 4PN	2.5km

Name	Street	Ward	Postcode	Zone
Portsmouth High School Senior School	25 Kent Road	Southsea	PO5 3EQ	2.5km
Portsmouth High School Nursery and Junior School	36 Kent Road	Southsea	PO5 3ES	2.5km
Arundel Court Nursery	Arundel Court Infant School, Northam Street	Landport	PO1 1JE	2.5km
Cottage Grove Nursery	Cottage Grove Primary School & Nursery, Chivers Close	Southsea	PO5 1HG	2.5km
Flying Bull Nursery	Flying Bull Lane	Buckland	PO2 7BJ	2.5km
ARK Alpha Nursery	ARK Ayrton Primary Academy, Somers Road	Southsea	PO5 4LS	2.5km
St John's Nursery	St John's Primary School, Cottage View	Landport	PO1 1PX	2.5km
Bunny Warren Pre-School (Wrap)	Fratton Community Centre, Trafalgar Place	Fratton	PO1 5JJ	3km
Carousel Nursery School	40 Northern Parade	Hilsea	PO2 8ND	3km
Rainbow Corner Nursery School	42 Victoria Road North	Southsea	PO5 1PX	3km
Tiddleywinks Pre-School	Church of the Ascension, Stubbington Avenue	Stamshaw	PO2 0JG	3km
Shadwell Playbox Day Nursery	45 Stubbington Avenue	North End	PO2 0HP	3km
Swishers flc (Wrap) Nursery	St Wilfrid's Church Hall, Ewart Road	Buckland	PO1 5RH	3km
Storytime Nursery School	Kersey House, Queens Place	Southsea	PO5 3HF	3km
Little Learners Day Care Ltd	Park Lodge, 28 Clarkes Road	Fratton	PO1 5PR	3km
Manor House Nursery	Manor Infants School, Inverness Road Isambard Brunel Junior School, Wymering	Fratton	PO1 5QR	3km
Izzies Neighbourhood Nursery (NNI)	Road	North End	PO2 7HX	3km
Little Bumbles - Binsteed Childcare Services	Binsteed Community Centre, Langley Road	Buckland	PO2 7PX	3km
St John's College Lower School (Rec)	Grove Road South	Southsea	PO5 3QW	3km
Little Sunbeams Pre School	Stamshaw Infants School, North End Avenue	North End	PO2 8NW	3km
Penhale Infants School with Nursery & Hearing Impaired Resource	Lincoln Road	Fratton	PO1 5EFBG	3km
The Brambles Nursery	22 Bramble Road	Southsea	PO4 0DT	3km
Meredith Infant	Portchester Road	Copnor	PO2 7JB	3km
Penhale Infant	Lincoln Road	Fratton	PO1 5BG	3km
Jumping Jacks Pre-school, Stamshaw Junior School	Tipner Road	Nelson	PO2 8QH	3km
Stamshaw Infant	North End Avenue	Nelson	PO2 8NW	3km
Stamshaw Junior	Tipner Road	Nelson	PO2 8QH	3km

Name	Street	Ward	Postcode	Zone
Isambard Brunel Junior	Wymering Road	Copnor	PO2 7HX	3km
Manor Infant	Inverness Road	Fratton	PO1 5QR	3km
Corpus Christi Catholic Primary	Gladys Avenue	Nelson	PO2 9AX	3km
Priory	FAWCETT ROAD	Central Southsea	PO4 0DL	3km
Portsmouth Academy for Girls	St Marys Road	Fratton	PO1 5PF	3km
The Harbour School (@ Fratton)	Penhale Road	Fratton	PO1 5EF	3km
The Harbour School (@ Tipner)	Tipner Lane	Nelson	PO2 8RA	3km
Brambles Nursery	Bramble Road	Central Southsea	PO4 0DT	3.5km
Goldsmith Infant	Bramble Road	Central Southsea	PO4 0DT	3.5km
Devonshire Infant	Francis Avenue	Central Southsea	PO4 0AG	3.5km
College Park Infant	Lyndhurst Road	Copnor	PO2 0LB	3.5km
Northern Parade Infant	Kipling Road	Hilsea	PO2 9NJ	3.5km
Southsea Infant	Collingwood Road	St Jude	PO5 2SR	3.5km
Fernhurst Junior	Francis Avenue	Central Southsea	PO4 0AG	3.5km
Newbridge Junior	New Road	Fratton	PO2 7RW	3.5km
St Swithun's Primary	Taswell Road	St Jude	PO5 2RG	3.5km
Mayfield	Mayfield Road	Copnor	PO2 ORH	3.5km
Alphabet Corner Nursery	309 London Road	North End	PO2 9HQ	3.5km
The Parade Community Pre School (Wrap-Around)	Northern Parade Infant School, Kipling Road	Hilsea	PO2 9NJ	3.5km
Mayville Pre Prep	Mayville High School, 35 - 37 St Simon's Road	Southsea	PO5 2PE	3.5km
Little Learners Day Care Ltd, Cannons Health Club	Alexandra Park, Northern Parade	Hilsea	PO2 9PB	3.5km
The Brambles Nursery School & Children's Centre	Bramble Road	Southsea	PO4 0DT	3.5km
Les Petit Enfants Day Nursery	43 Edmund Road	Southsea	PO4 0HZ	3.5km
Rose Lodge Nursery	5 South Parade	Southsea	PO5 2JA	3.5km
Flying Start Nursery	29 Wimbledon Park Road	Southsea	PO5 2PU	3.5km
Copnor Methodist Community Playgroup	Copnor Methodist Church, Epworth Road	Copnor	PO2 0HD	3.5km
Fledglings Nursery, Devonshire Infant School	Francis Avenue	Southsea	PO4 0AG	3.5km
Puffin Pre School	27 Narvik Road	Hilsea	PO2 9PN	3.5km
Willows Nursery (Childrens Centre) LEA	Battenburg Avenue	North End	PO2 0SN	3.5km
Lyndhurst Junior	Crofton Road	Copnor	PO2 0NT	3.5km

Name	Street	Ward	Postcode	Zone
Northern Parade Junior	Doyle Avenue	Hilsea	PO2 9NE	4km
Cumberland Infant	Methuen Road	Milton	PO4 9HJ	4km
Westover Primary	Westover Road	Baffins	PO3 6NS	4km
Langstone Infant	Ascot Road	Baffins	PO3 6EY	4km
Copnor Infant	Copnor Road	Baffins	PO3 5BZ	4km
Wimborne Infant	Wimborne Road	Milton	PO4 8DE	4km
Langstone Junior	Lakeside Avenue	Baffins	PO3 6EZ	4km
Copnor Junior	Copnor Road	Baffins	PO3 5BZ	4km
Wimborne Junior	Wimborne Road	Milton	PO4 8DE	4km
		Eastney &		
Craneswater Junior	ST RONANS ROAD	Craneswater	PO4 0PX	4km
Miltoncross Academy	Milton Road	Baffins	PO3 6RB	4km
Cliffdale Primary	Battenburg Avenue	Copnor	PO2 0SN	4km
Willows Nursery	Battenburg Avenue	Copnor	PO2 0SN	4km
Get Set Go Nursery	C/o Cumberland Infant School, Methuen Road	Milton	PO4 9HJ	4km
Puddleduck Nursery @ The Priory	22 Priory Crescent	Milton	PO4 8RL	4km
Stepping Stones Nursery School	16 Bruce Road	Southsea	PO4 9RL	4km
Apple Tree Day Nursery	593 London Road	Hilsea	PO2 9SD	4km
Goldsmith Day Nursery	Hedgerow House, 41 Goldsmith Avenue	Southsea	PO4 8DU	4km
All Aboard Nursery	70 The Ridings, Gatcombe Park	Hilsea	PO2 0UF	4km
Copnor Methodist Nursery	Copnor Methodist Church, Epworth Road	Copnor	PO2 0HD	4km
Langstone Community Nursery	Class 1, Langstone Infants School, Ascot Road	Copnor	PO3 6EY	4km
	Devonshire Ave Baptist Church, Devonshire			
Mini Bugs Pre-School	Avenue	Southsea	PO4 9EQ	4km
St Nicholas Pre-school	St Nicholas Church Hall, Battenburg Avenue	Copnor	PO2 0HS	4km
The Corner Pre-School	St Cuthbert's Trust Centre, Hayling Avenue	Copnor	PO3 6EA	4km
Westover Pre-School	54th Scout Group HQ, Paignton Avenue	Copnor	PO3 6EE	4km
Port Solent Pre-School and Day Nursery	C/o David Lloyd Leisure, The Boardwalk	Port Solent	PO6 4TP	4km
Meon Infant	Shelford Road	Milton	PO4 8NT	4.5km
Gatcombe Park Primary	St Barbara Way	Hilsea	PO2 OUR	4.5km

Name	Street	Ward	Postcode	Zone
Milton Park Primary	Eastney Road	Milton	PO4 8ET	4.5km
Moorings Way Infant	Moorings Way	Baffins	PO4 8YJ	4.5km
Meon Junior	Shelford Road	Milton	PO4 8NT	4.5km
Admiral Lord Nelson	Dundas Lane	Copnor	PO3 5XT	4.5km
Trafalgar School	London Road	Hilsea	PO2 9RJ	4.5km
Mary Rose Academy	Gisors Road	Milton	PO4 8GT	4.5km
Little Admirals Pre-School	The Exercise Deck, Admiral Lord Nelson School	Copnor	PO3 5XT	4.5km
First Steps at ROKO	ROKO Health Club, 442 Copnor Road		PO3 5EW	4.5km
Busy Bees Nursery	Portsmouth Rugby Club, Norway Road	Hilsea	PO3 5HT	4.5km
Jack & Jill Pre-School	Shelford Road Hall, Shelford Road	Milton	PO4 8PA	4.5km
Milton Park Pre-School	Milton Park Junior School, Eastney Road	Eastney	PO4 8ET	4.5km
Little Spinnakers	Christ Church Hall, United Reform Church, 239	Milton	PO4 8PH	4.5km
	Milton Road			
Medina Primary	Medina Road	Cosham	PO6 3NH	5km
Victory Primary	Allaway Avenue	Paulsgrove	PO6 4QP	5km
King Richard	Allaway Avenue	Paulsgrove	PO6 4QP	5km
St Paul's Catholic Primary	Bourne Road	Paulsgrove	PO6 4JD	5km
St Paul's Nursery	St Pauls RC Primary School, Bourne Road	Paulsgrove	PO6 4JD	5km
Teddy Bears Day Nursery	232 Southampton Road	North Harbour	PO6 4QD	5km
Busy Bees Day Nursery at Portsmouth (Leapfrog)	North Harbour Business Park, Compass Road	Cosham	PO6 4SF	5km
Paulsgrove Primary School Nursery	Cheltenham Road	Paulsgrove	PO6 3PL	5km
Saxon Shore Nursery	Saxon Shore Infant School, Jubilee Road	Paulsgrove	PO6 4QJ	5km
Honeypot Nursery, Highbury College	Dovercourt Road	Cosham	PO6 2SA	5km
Highbury Nursery & Daycare	Highbury Primary School, Dovercourt Road	Cosham	PO6 2RZ	5km
Anchorage Park Pre-School	Anchorage Park Lodge, Sywell Crescent	Anchorage Park	PO3 5UB	5km
Mulberry Court Pre-School	Wymering Methodist Church, Sixth Avenue	Cosham	PO6 3PD	5km
Pipit Under Fives Pre School	27 Finch Road	Eastney	PO4 9LT	5km

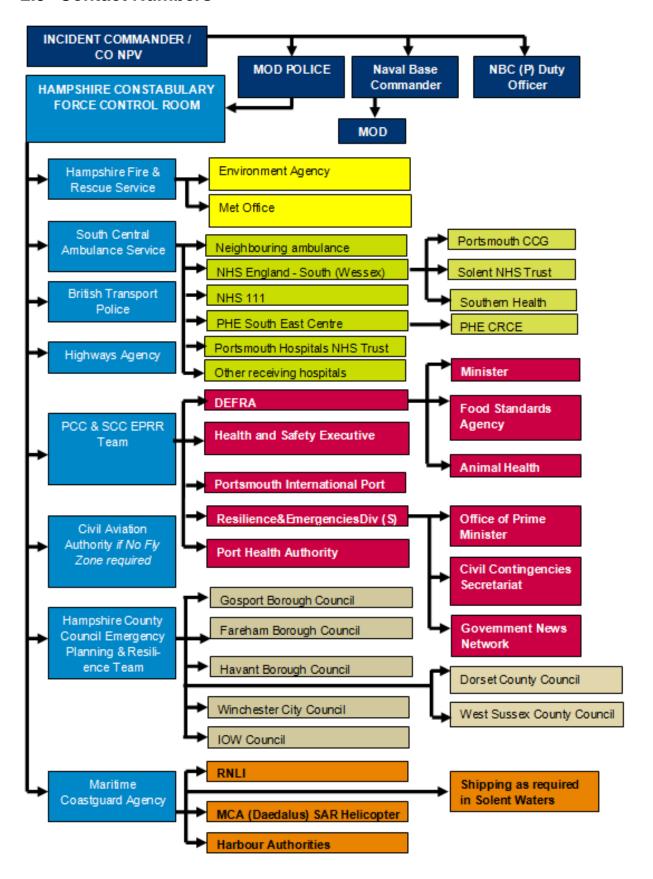
Schools and Nurseries in the EEPZ - Hampshire

Name	Street	Ward	Postcode	Zone
Hop Scotch Day Nursery	Mumby Road	Gosport	PO12 1AB	1.5km
NEWTOWN CE (VC) PRIMARY SCHOOL	Queen's Road	Gosport	PO12 1JD	2km
QUAYSIDE EDUCATION CENTRE	St Vincent College, Mill Lane	Gosport	PO12 4AF	2km
ST JOHN'S GOSPORT CE (VA) PRIMARY SCHOOL	Grove Road	Gosport	PO12 4JH	2km
Dove Nursery	Stoke Road	Gosport	PO12 1LT	2km
St Vincent College	Mill Lane	Gosport	PO12 4QA	2km
LEESLAND CE (C) INFANT SCHOOL	Whitworth Road	Gosport	PO12 3NL	2.5km
ELSON JUNIOR SCHOOL	Exmouth Road	Gosport	PO12 4EX	2.5km
LEESLAND CE (C) JUNIOR SCHOOL	Gordon Road	Gosport	PO12 3QF	2.5km
HEDCA Pre School	Coombe Road	Gosport	PO12 4JB	2.5km
Noahs Ark Pre School	Parklands Close	Gosport	PO12 4XJ	2.5km
Gateway Pre-school Forton	Salvation Army Citadel the Crossways	Gosport	PO12 4RH	2.5km
Noahs Ark Pre School	Forton Road	Gosport	PO12 4TQ	2.5km
Nicholson Hall Pre School	St. Andrew's Road	Gosport	PO12 1QA	2.5km
Alver Bridge Pre School	Stone Lane	Gosport	PO12 1 SQ	2.5km
HASELWORTH PRIMARY SCHOOL	Stone Lane	Gosport	PO12 1SQ	2.5km
BROCKHURST INFANT SCHOOL	Avery Lane	Gosport	PO12 4SR	3km
ELSON INFANT SCHOOL	Elson Lane	Gosport	PO12 4EU	3km
BROCKHURST JUNIOR SCHOOL	Avery Lane	Gosport	PO12 4SL	3km
ST MARY'S CATHOLIC VA PRIMARY SCHOOL, GOSPORT	Ann's Hill Road	Gosport	PO12 3NB	3km
Gateway Pre School	Netherton	Gosport	PO12 4PH	3km
Happy Days Pre- School	175 Elson Road	Gosport	PO12 4 AB	3km
Little Js Childminding	21 Park Road	Gosport	PO12 2HQ	3km
Alverstoke Pre School	Bury Road	Gosport	PO12 3PX	3km
BRUNE PARK COMMUNITY COLLEGE	Military Road	Gosport	PO12 3BU	3.5km
ALVERSTOKE CHURCH OF ENGLAND (AIDED) JUNIOR SCHOOL	The Avenue	ALVERSTOKE	PO12 2JS	3.5km
Merritime Nursery	Military Road	Gosport	PO12 3BY	3.5km

Name	Street	Ward	Postcode	Zone
Little J's, Broderick Hall	Clayhall Road	Gosport	PO12 2BY	3.5km
Vicarage Nursery and Pre-School	Unit F1, Heritage Business Park, Heritage Way	Gosport	PO12 4BG	3.5km
GOMER INFANT SCHOOL	Pyrford Close	Alverstoke	PO12 2RP	4km
GOMER JUNIOR SCHOOL	Pyrford Close	Alverstoke	PO12 2RP	4km
ALVERSTOKE COMMUNITY INFANT SCHOOL	Ashburton Road	Alverstoke	PO12 2LH	4km
Swan Pre School	219 St. Nicholas Avenue	Gosport	PO13 9RJ	4km
Dinky Duck Day Care	Rowner Family Centre, Nimrod Drive	Gosport,	PO13 8AA	4km
GRANGE JUNIOR SCHOOL	Franklin Road	Rowner	PO13 9TS	4.5km
SISKIN INFANT AND NURSERY SCHOOL	Nimrod Drive	Rowner	PO13 8AA	4.5km
PORTCHESTER COMMUNITY SCHOOL	White Hart Lane	Portchester	PO16 9BD	4.5km
CASTLE PRIMARY SCHOOL	Castle Street	Portchester	PO16 9QQ	4.5km
ROWNER INFANT SCHOOL	Copse Lane	Rowner	PO13 0DH	4.5km
SISKIN JUNIOR SCHOOL	Nimrod Drive	Rowner	PO13 8AA	4.5km
ROWNER JUNIOR SCHOOL	Tichborne Way	Rowner	PO13 0BN	4.5km
BAY HOUSE SCHOOL	Gomer Lane	Alverstoke	PO12 2QP	4.5km
GRANGE INFANT SCHOOL	Franklin Road	Rowner	PO13 9TS	4.5km
Gosport Opportunity Group	1 Phoenix Way	Gosport	PO13 OBE	4.5km
Busy People Pre School	Rowner Lane	Gosport	PO13 9SU	4.5km
Skylark Pre School	4 Shackleton Road	Gosport	PO13 9SG	4.5km
Naval under Fives	8 Shackleton Road	Gosport	PO13 9SG	4.5km
Anchor Pre School	Family Centre ,Grange Lane	Gosport	PO13 9RX	4.5km
Little Stars Pre-School	Portchester Community School, White Hart La	ne Fareham	PO16 9BD	4.5km
HAVEN EARLY YEARS CENTRE	Harris Road	Gosport	PO13 0UY	5km
WICOR PRIMARY SCHOOL	Hatherley Crescent	Portchester	PO16 9DL	5km
BEDENHAM PRIMARY SCHOOL	Bridgemary Avenue	Gosport	PO13 0XT	5km
BRIDGEMARY COMMUNITY SPORTS COLLEGE	Wych Lane	Gosport	PO13 0JN	5km
Andy Pandy Pre School	Portchester Community Centre, Westlands Gro	ove Fareham	PO16 9AD	5km
Seafield Pre School	Seafield House, Westlands Grove	Fareham	PO16 9AA	5km

Part 2 Chapter 9 Contact Numbers

2.9 Contact Numbers



Part 3 Southampton Site Specific Actions

REMOVED FROM PORTSMOUTH PUBLIC VERSION

Part 4 MOD reference accident information

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4.1 MOD reference accident information

4.1.1 Categorisation of berths

MOD is designated as the operator of nuclear plant for all vessels visiting Portsmouth naval base and Eastern Docks in the Port of Southampton. Delegated authority for operation of the berths rests with the Chief Staff Officer Engineering (Submarines) who for the purposes of REPPIR is the Duty Holder.

The Defence Nuclear Safety Regulator has approved operational berths:

Portsmouth harbour and anchorages

ABP Southampton Eastern Docks

Operational berths are cleared for operational or recreational visits by nuclear powered vessels. The berths are not cleared for the maintenance or repair of the nuclear plant. The berth assessment process examines the safety aspects of navigational hazards, the provision of tugs and other facilities and the presence of other hazards. The locations of berths are chosen to minimise the proximity of the general public and facilities such as schools and hospitals.

During periods when a nuclear powered vessel is at a berth a number of MOD emergency response personnel will be on stand-by:

- Elements of the MOD Off-Site Nuclear Emergency Monitoring Organisation
- Health physicists

4.1.2 Regulatory determination

The operator² has undertaken an assessment of the risk associated with potential accidents through the identification of a Reference Accident. A Reference Accident is defined as the worst-case accident which, although unlikely, is realistically possible.

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² Off-Site Nuclear Emergency Arrangements Group Paper No 2, update of information provided to Local Authorities dated 29 Jul 09.

In accordance with REPPIR the Reference Accident forms the basis of emergency response plans for the protection of the work force and the public who may be affected.

The ONR have determined³ that an off-site emergency plan is required for the protection of the public within an area extending to a distance of not less than 1.5km from a submarine berth.

4.1.3 Reference accident characteristics

A number of cautious assumptions are made about the radioactive material inventory and other characteristics of the reactor:

- A leak occurs in the primary cooling circuit of the reactor, which cannot be isolated and is beyond the capacity of coolant make-up systems.
- A series of unlikely engineering and other failures also occur
- The primary coolant leak coupled with the other failures lead to damage to the fuel within the reactor after more than 3 hours, resulting in elevated gamma radiation levels around the reactor.
- The fuel damage in turn releases some radioactive material form the reactor.
 This is largely contained within the submarine but a small proportion may be released to the environment over the following 1-2 days.
- The radioactive material would be carried downwind and would therefore present a hazard in the downwind zone only. This hazard would arise principally via inhalation initially.

Fuel damage from the Reference Accident would give rise to significant direct gamma radiation doses in the immediate vicinity of the submarine such that early warning evacuation would be warranted to a distance of 200m.

Gamma radiation doses would be substantially attenuated beyond this distance but the lower ERL for shelter would be exceeded at a relatively early stage to a distance of 400m. This hazard area extends in all directions.

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³ HSE letter 4.10.2.26 2009/185711 dated 15 May 2009

A release of radioactive material would lead to lower ERLS for PITs being exceeded to a distance of 1.2m downwind within the first few hours following an accident. Shelter

ERLS would be exceeded over a more limited area.

4.1.4 Emergency reference levels

Emergency Reference Levels (ERLs) are set by Public Health England and comprise

recommended dose criteria for the implementation of emergency countermeasures.

They are specified in terms of the dose to an individual that would be averted by taking

the relevant countermeasure.

ERLs are specific to each countermeasure because the harm associated with each

countermeasure is different. They are expressed as a range between a higher and

lower value and inform decision-making. The intervention level selected for a specific

situation should lie between the 2 ERL values:

If the implementation of the countermeasure may result in an individual receiving

a dose lower than the lower ERL specified for the measure, the measure is

unlikely to be justified and should not be taken.

If the implementation of the countermeasure may result in an individual receiving

a dose higher than the upper ERL specified for the measure, then the measure

is likely to be justified and should be introduced as soon as possible.

The implementation of counter measures for the Portsmouth and Southampton

Operational Berths has been agreed at the following Site Specific Intervention Levels:

Shelter: lower ERL 3mSv

Taking potassium iodate tablets: lower level 30 mSv where practical

Evacuation: 30mSv

Radiation exposure or contamination does not necessarily end at the distance to which

countermeasures have been introduced. The extension of countermeasures beyond

the implementation distance, however, would not be justified and could present more of a risk to the public than the radiation doses they are intended to avert.

4.1.5 Emergency exposures to radiation

Emergency exposures are managed through the processes detailed in the operator's on-site plans, PORTNUSAFE for HM Naval Base Portsmouth and SOTNUSAFE for the Port of Southampton.

4.1.6 Non-emergency exposures to radiation

The radiation exposures for this group of personnel must not exceed the relevant IRR99 radiation dose limits. This will include personnel supporting the SCG, TCG and Bronze command and control organisations as well as emergency services personnel and doctors, nurses and local authority employees supporting the emergency services.

4.1.7 The exclusion zone

The exclusion zone is the area including the vessel itself in which people would be at greatest risk from the hazards of an accident. The size of this zone varies with local plans but the most basic consideration in its identification is that people within it, even if they took immediate automatic countermeasures, could still receive radiation doses above the upper ERL for evacuation. Within this zone, all people are accounted for and are provided with equipment, which can assess their radiation dose. The local operator's plan provides for an exclusion zone reception centre where personnel evacuating from the zone would have access to medical, radiation protection, monitoring and decontamination facilities.

Automatic measures provide the great advantage of early and complete public protection if they are in place prior to the existence of the hazard. The distance to which they are planned however, must represent a balance between this possible benefit and the detrimental effects resulting from their implementation for the more probable accidents producing either no hazard or hazards that would not require measures to be taken to such a distance.

In Portsmouth no members of the public are expected to be in the exclusion zone.

4.1.8 The automatic countermeasures zone

The automatic countermeasures zone is beyond the exclusion zone and is where automatic actions would commence immediately on the declaration of an accident, irrespective of category. Within this zone all people not essential to the management of the accident would be evacuated and provided with potassium iodate tablets to be taken immediately. In the on-site plans, automatic countermeasures include initial shelter within pre-designated shelter stations followed by a controlled evacuation. All people working within this zone should be given instructions on what action they should take in the event of an accident.

In Portsmouth the extent of the automatic countermeasures zone is within the perimeter of the Naval Base. Actions for this area are included in the operator's plan.

4.1.9 **DEPZ**

This zone includes the automatic countermeasures zone and extends to a total radius of 1.5km from the vessel. The MOD notify civil authorities at the commencement of an Off-Site Nuclear Emergency so that shelter and potassium iodate tablet distribution can be implemented in the downwind sector of the zone to an initial distance of 1.5km. Local authorities have made plans for tablet distribution and issuing. There will also be a requirement for outline contingency planning for evacuation from this zone. The MOD will assist civil authorities as required in implementing these countermeasures.

4.1.10 Extendibility zone

Assessments of the consequences of reactor accidents demonstrate that emergency countermeasures would only be required beyond the pre-planned countermeasures zone in the very improbable event of a large release of fission products to the atmosphere. The probability of this event is so low that detailed emergency plans are not required. However, in view of the need for some pre-planning to be carried out to achieve effective implementation, should the need arise; outline contingency plans for

this zone can provide a basis for the further extension of countermeasures. The zone extends in all directions around the pre-planned countermeasures zone but following an accident it is anticipated that the requirement for countermeasures would be confined to the downwind areas only. Advice on the need for these measures would be based on a technical assessment of the way in which the accident was developing and on an assessment of doses likely to be received by the public.

4.1.11 Beyond the extendibility zone

The probability of any requirement for emergency countermeasures is so remote that specific plans for emergency public protection are not required. At these distances the main considerations would be monitoring of pasturage contamination and of foodstuffs. Any requirements for foodstuff restrictions would be based on EC Regulations which are mandatory in the UK and which are set at very low levels of contamination. As a result, food restrictions are likely to extend far beyond the area over which other safety measures are required, and will continue to be applied even when the immediate danger to the public from direct irradiation has ended. This is unavoidable but will need to be carefully explained in the context of the co-ordinated effort in dealing with the emergency.

Food controls and environmental impact will be defined by the Food Standards Agency, Environment Agency and STAC. They will also advise the Recovery Co-ordinating Group of mitigating strategies and methods of clean up during the recovery phase of the incident.

4.1.12 MOD advice on the protection of the public

In accordance with the ONR determination, the off-site emergency plan is required to secure the protection of the public within an area extending to a distance of not less than 1.5km from a submarine berth.

Declaration of an Off-Site Nuclear Emergency by the operator to the civil authorities provides the trigger for implementing the off-site emergency plan and for initiating

actions to protect the public. MOD advise that this declaration should trigger the following precautionary actions to protect the public in the early stages:

- Controlled evacuation of the immediate area around the berth (nominally 200m).
 No members of the public would be expected to be in this area
- Advice to staff within 400m (all directions) to shelter indoors in order to protect against direct gamma radiation hazards from the submarine
- Provision and consumption of PITs by members of the public within 1.2km downwind in order to protect against an uptake of radioactive iodine to the thyroid
- Advice to members of the public in the 1.2km downwind PITs zone to shelter indoors in order to protect against a release of radioactive material

MOD advise that any further protective action would not be justified on a precautionary basis. In the event of an accident the civil authorities will need to consider further actions on the basis of specialist technical assessment of the development of the accident, coupled with radiation monitoring measurements. This information and advice will be available from the MOD at an early stage.

4.1.13 Background to naval reactors

The Royal Navy operates a flotilla of nuclear powered submarines, which form a vital element of the defence of the UK. The nuclear reactor offers the submarine a level of speed and underwater endurance that cannot be achieved by any alternative method of propulsion. Nuclear power is the only mechanism available to allow HM Submarines to carry out elements of the Navy's task in support of the UK's independent nuclear deterrent, anti-submarine warfare and in the protection of maritime supply routes.

The safety of naval reactors is given the highest priority and their design, operation and maintenance is authorised by the Secretary of State for Defence through the Defence Nuclear Safety Regulator. They will be advised on these matters by a specialist committee, the Defence Nuclear Safety Committee (DNSC), whose membership includes independent nuclear and radiation safety experts. The MoD has all aspects of the Naval Nuclear Propulsion Programme (NNPP) independently assessed by safety and reliability experts from SERCO Assurance whose performance and conclusions are subject to the scrutiny of the Director of Safety of the United Kingdom Atomic Energy

Authority (UKAEA). The prime contribution to nuclear safety comes from engineered safeguards, good design, quality in construction, training and competence of staff in operations and maintenance.

Such measures ensure that the likelihood of a reactor accident occurring is extremely remote. Indeed during more than 40 years of the Naval Nuclear Propulsion Programme there has never been a reactor accident nor has any radiation incident resulted in a significant hazard to service personnel or a member of the public. Nevertheless, in accordance with best international practice, and the Radiation (Emergency Preparedness and Public Information) Regulations 2001 it is MoD policy to have detailed reactor accident contingency plans. These plans form an additional level of public protection for use in the extremely unlikely event of an accident.

4.1.14 Reactor plant operation

A Royal Navy nuclear powered warship is driven by steam turbine machinery. However, unlike a conventional steam driven vessel, which uses fossil fuels to fire its boilers, the source of heat within a nuclear powered vessel is provided by a nuclear reactor. The type of reactor used is known as a Pressurised Water Reactor (PWR).

The reactor core contains fuel modules and control rods. To achieve criticality, the state in which the reactor is able to provide useful power, the control rods are slowly withdrawn from the core until the fission reaction is established. The reactor is shut down by re-insertion of the control rods. The heat produced by the fission of the fuel is removed from the core by water contained in a sealed primary circuit. This water is pumped through steam generators where the heat is used to produce steam in a separate, secondary circuit. It is this steam which is used to provide power to the submarine. The primary circuit is kept under pressure to prevent the coolant water from boiling.

As well as heat, the fission process also produces radioactive fission products. Unlike some civilian power reactor designs where the minor release of fission products into the primary circuit can be tolerated, submarine fuel modules are designed differently to avoid any such release during normal operation and there has never been an instance when fission products have been released from the fuel. Indeed the MoD definition of a

reactor accident is the release of fission products from the fuel, which is more restrictive than civil reactors. Although the fission products remain contained in the fuel, the gamma radiation that they emit is highly penetrating and thus there is a need for shielding to be fitted around the core and to be built into the submarine's reactor compartment. The shielding installed in RN nuclear powered submarines reduces the radiation levels within the manned compartments of the submarine to very low levels. Indeed the average levels of radiation dose received by members of the crew from reactor operation are less than the average natural background levels received by the UK population.

The heat produced by the fission process would be sufficient to melt the fuel modules if they were not cooled. Even after shutdown the radioactive fission products continue to generate heat, known as decay heat, and cooling is still necessary for some time. To overcome this submarine design incorporates a number of mechanisms, which are able to supply cooling to the reactor. These include natural convection so that cooling would continue even on complete loss of electrical power.

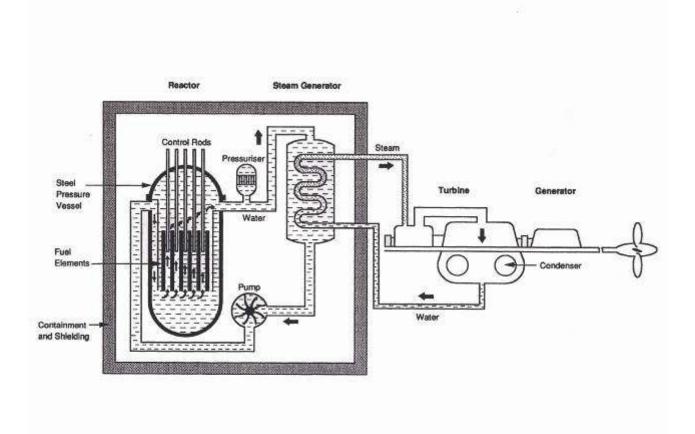


Fig 1.1 Schematic of a PWR

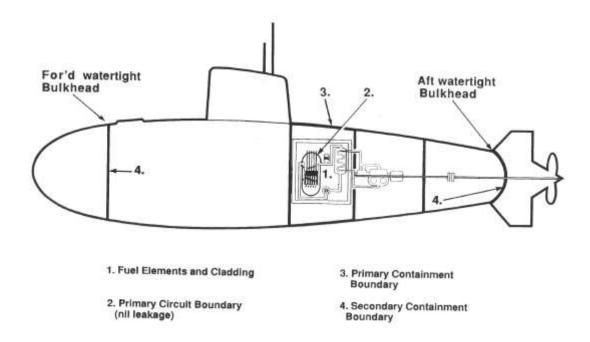


Figure 1.2 Barriers to fission product release

Following an accident the main potential hazard associated with nuclear reactors would come from the release of fission products from the fuel. As already stated, in order to prevent this, submarine reactor fuel is encased in strong and very high integrity cladding. In addition, beyond this protection there are a number of further barriers designed to contain the fission products should an accident situation develop. In the first instance, should the cladding fail the primary coolant system, which is a closed circuit, would contain the fission products and prevent further spread.

Beyond the primary coolant system, the submarine's reactor compartment is designed and constructed to meet the severe rise in pressure that could result from the very unlikely event of a complete failure of the primary system. This barrier to the release of fission products is termed the Primary Containment. Pipes, ducts and other penetrations between the primary containment and the remainder of the submarine are designed to be shut off automatically, but even if these openings were to allow a slow release of a proportion of fission products, they would still be contained by the immensely strong hull of the submarine which is, of course, designed to withstand the

enormous pressures associated with operations at depth. The submarine's pressure hull is referred to as Secondary Containment.

4.1.15 Hazards of a reactor accident

Biological Effects of Radiation

It is the ionising radiation given off by the fission products, which would pose the hazard following any reactor accident. Radiation passing through the human body can trigger ionisation events which may damage or kill cells. The body is of course being subjected continuously to natural background radiation and has well developed repair processes to deal with radiation damage. Different human cell types have very different radiation sensitivities but if the radiation dose is great enough and large numbers of cells are killed, signs and symptoms of acute radiation exposure would appear. These acute radiation effects include skin burns and most severely death, but all have a defined threshold of dose below which the effect will not take place.

At radiation doses below the thresholds acute effects cannot occur, although cells may have been damaged with the result that exposed individuals have a statistically increased risk of the development of late effects (such as cancer) in years to come. Reproductive cells may also have been damaged so that children born to exposed individuals may have a very small increased risk of hereditary defects. For radiation protection purposes, the increased risk of these effects is assumed to be directly proportional to the radiation dose, without any threshold.

Radiation and Contamination

In order to understand the hazards of a reactor accident, it is important to appreciate the meaning of and differences between the terms radiation and contamination. Even in a situation where the fission products remain contained, the penetrating radiation, which they give off, may still irradiate people in the vicinity. This is termed a radiation hazard. Protection against such a hazard would be afforded by reducing the time people spent close to the fission products, placing shielding between the individuals and the radiation source or increasing the distance between them and the source. If, however, personnel became contaminated with fission products, either on the surface of their body or internally by breathing contaminated air or eating and drinking contaminated items, then

the subjects carrying the source of the radiation around with them would continue to be irradiated until that source was removed. This is termed a contamination hazard. Some protection against such a hazard can be afforded by the use of protective clothing, and skin contamination can normally be removed by simple washing.

Hazards

Following a severe reactor accident involving the release of fission products outside the primary circuit, there are 2 distinct ways by which people could be irradiated:

- Gamma radiation from fission products retained within the submarine containment would be transmitted in all directions through the vessel's hull. The intensity of this pure radiation hazard would be diminished by both shielding and distance from the submarine, but excessive levels of radiation could be received by people within, or in close proximity to, the vessel. This hazard is referred to as Hull Gamma Shine.
- Less likely is the release of some of the fission products from the submarine to the surrounding atmosphere or water. The release of fission products, the actual radioactive material, would also constitute a contamination hazard.

Release of Fission Products to Atmosphere (Fig 1.3)

If released to atmosphere the fission products would be dispersed in the area downwind of the vessel. The extent of the hazard and the distance to which such a fission product cloud could be detected would be highly dependent on the weather conditions during the period that the release took place. Such a cloud of radioactive contamination could irradiate people in 6 distinct ways:

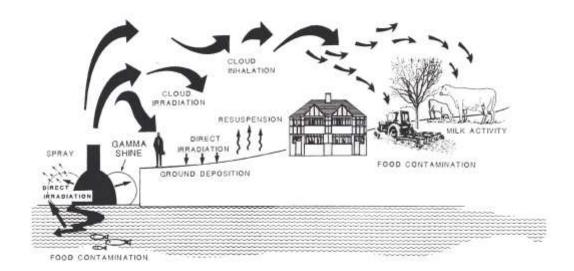
- Direct radiation from the cloud as it passes by.
- By inhalation of radioactive fission products from the cloud. The parts of the body receiving the greatest radiation doses would depend on the chemical and physical form of the individual fission products. It is possible that a significant dose to the thyroid gland could result from the inhalation of radioactive iodine, which is readily absorbed and concentrated, in the thyroid gland. Another group of fission products, being largely insoluble, would remain in the lung. A third main group would be readily absorbed but would not be concentrated in any particular organ.

- Direct radiation from fission products that have been deposited on the ground.
 This route, like a. above, would result in fairly uniform whole body radiation exposure.
- Direct radiation from beta and gamma emitting fission products that have been deposited on the skin.
- Inhalation of fission products, which have been resuspended after deposition on the ground. This route has been shown to be insignificant compared with doses that would result from b and c.

Consuming food or drink that has been contaminated by fission products. As a radioactive cloud moves downwind, some of the radioactivity would be deposited onto the surface of food, either growing in fields or exposed on market stalls etc. This superficially contaminated food would cause internal contamination to those who consumed it in the immediate post accident period. Fission products deposited on the ground may also be taken up by growing plants and animals that may be eaten by man, causing subsequent internal contamination and radiation dose. The contaminated plants and animals may not be eaten directly by man, but may enter a food chain and pass through a number of stages before entering the human diet.

For example, radioactive iodine deposited on pasture would be concentrated in the milk of grazing dairy animals that could present a hazard if the milk was consumed. Peak levels of radioactive iodine in milk would be reached 2 days after the release, with levels decaying over the next several weeks. After the decay of the iodine, the dominant hazard via the ingestion route would be the take-up of longer lived fission products into the food chain.

In the very unlikely event of a release to atmosphere the principal short term hazards would be direct irradiation from the cloud, inhalation of fission products and irradiation from ground deposition. Food chain contamination, although representing less of a hazard initially, would come to be of increasing significance in the longer term.



Release of Fission Products to Water

The radiation effects from fission products released into water would be highly dependent on the state of the tide and the characteristics of the estuary into which the release took place. There are 4 ways in which people could receive a dose of radiation following such a release:

- Direct radiation from the water either to those immersed within it or to those in its immediate vicinity.
- Ingestion of the water or inhalation of spray.
- Irradiation from the deposition of fission products on banks and areas uncovered by the tide.
- Fission product contamination of marine food chains.

Following a reactor accident, the overall hazards to the population resulting from a fission product release to water would be on a smaller scale than for the same magnitude of release to atmosphere. Significant hazards could arise in the localised area around the contaminated water, however, and this area would drift with the tide

gradually diluting and dispersing. Food chain contamination could become of increasing significance in the longer term, as would the accumulation of radioactivity in the sediments and mudflats.

4.1.16 Protection of the public

Accident Management

If a reactor accident were to occur, emergency procedures would be followed by the submarine crew and shore engineering support with the aim of preventing or minimising core damage, maintaining the integrity of containment and minimising any release of fission products. This accident management strategy would form an important element in the overall protection of the public.

Emergency Countermeasures

The entire population has always been constantly exposed to naturally occurring radioactivity, although as a general rule the levels of this radiation are so low as to be considered insignificant. In the event of a reactor accident, increases in the radiation level above natural background would result and probably continue unless some forms of intervention were to take place. For a serious accident, intervention to reduce doses could be required in the form of emergency countermeasures, which are implemented, in the surrounding population. Since the implementation widespread countermeasures, even in accordance with a pre-planned scheme, is not a risk-free activity, it follows that there must be some criteria on which to base any decision to take such measures following a reactor accident.

The criteria for the implementation of emergency countermeasures following a reactor accident are based on the principles that the countermeasures should achieve more good than harm and that introduction and withdrawal of the measures should be aimed to provide optimum protection. It is the risk to the individual, which is considered of greatest importance in determining the need for emergency countermeasures. The basic requirements for implementation criteria are as follows:

 Countermeasures should be introduced to ensure that no individual suffers acute effects of radiation. • The increase in probability of the individual suffering cancer or hereditary effects from radiation exposure in the absence of the countermeasure should be balanced against the detriment from the countermeasure itself to determine the optimum protection of the individual.

Within the UK, guidance on emergency countermeasures to protect the public following nuclear accidents is provided by Public Health England. Basic methods of reducing radiation exposure such as time, distance and shielding are still relevant in the mass countermeasure situation but they are incorporated into three countermeasures which are applicable to a population:

- Sheltering: the public remaining indoors with doors and windows shut.
- Stable Iodine Administration: if tablets containing stable iodine (non-radioactive)
 are taken prior to or within a few hours of internal contamination with radioactive
 iodine, the resultant radiation dose to the thyroid gland would be reduced
 substantially.
- Evacuation: in the context of nuclear accident contingency planning, the term evacuation refers to the movement of people out of an area as an emergency measure to provide short-term protection for durations of up to a few days. If carried out prior to the existence of any hazard, evacuation would prevent almost all the radiation exposure that would have resulted. The adverse effects and difficulties of population evacuation, however, are significantly greater than for shelter.

Public Health England has recommended dose criteria for the implementation of these emergency countermeasures in an accident situation. These intervention levels are known as Emergency Reference Levels (ERLs), and are specified in terms of the dose to an individual which would be averted by taking the relevant countermeasure. ERLs are specific to each countermeasure because the detriment associated with each countermeasure is different, and are promulgated as a range between two specified

values. If doses that can be avoided by the measure are below the lower level for that measure, then Public Health England advise that the countermeasures should not be introduced because it would be unlikely to be justifiable. If doses that could be avoided are estimated to exceed the upper level, then Public Health England would expect every effort to be made to introduce the measure. The intervention level selected for a specific situation should therefore lie between the upper and lower ERL values.

Public Health England also recommends consideration of precautionary countermeasures to be implemented automatically particularly where the potential risks are significant, to provide protection at an early stage without requiring the full circumstances of the accident and of any release to be determined.

In considering emergency countermeasures following a release of radioactivity to the environment, it is important to recognise that radiation exposure or contamination does not necessarily end at the distance to which countermeasures have been implemented. It is simply that extension of emergency countermeasures beyond the implementation distance would not be justified and, indeed, could pose more of a threat to the public than the radiation doses they are intended to avert.

4.1.17 Other Countermeasures

In addition to emergency countermeasures for which ERLs are promulgated, other measures may be applicable to protect the public following a reactor accident:

• Food Controls In the UK the public would be protected from the hazards of fission products in foodstuffs by the control and disposal of the contaminated material. Intervention levels for food promulgated by the European Commission are mandatory in the UK and are set at very low levels, based on doses that individuals would receive if they consumed the food for a year following the accident. It is probable; therefore, that in the event of an accident involving a release of fission products, food and farm restrictions could extend to distances significantly greater than those to which emergency countermeasures were required.

• Relocation Relocation is the term used to describe the movement of the public from contaminated areas to avoid long-term radiation exposure or to allow decontamination to take place. It is therefore distinct from evacuation, which is an emergency countermeasure aimed at providing immediate public protection. There are no national criteria for the implementation of relocation. Any requirements for relocation would be determined by discussion among relevant local and national agencies with the aim of optimising the protection of the public. The protection provided by adequate emergency countermeasures would allow the required time to assess the need for relocation.

