

Dorset Council determination for Portland Operational Berth REPPIR off-site emergency planning, REPPIR 2019 Regulations 8(1) and 8(3)

DETERMINATION PUBLICATION DATE: November 19, 2019

1 Key messages

- Dorset Council has reviewed the extent of the area around the Portland Port Operational Berth within which emergency planning is required in order to protect the public in the unlikely event of a radiation emergency, stemming from the reactor of a Royal Navy nuclear powered vessel.
- Dorset Council has responsibility for determining this area under the Radiation (Emergency Preparedness and Public Information) Regulations 2019 (REPPIR).
- Dorset Council has completed its determination of the detailed emergency planning zone (DEPZ) for the Portland Operational Berth, Portland Port, in accordance with the requirements of REPPIR 2019. This is the area where Dorset Council is responsible for preparing an off-site emergency plan to protect the public in the highly unlikely event of a radiation emergency.
- The outcome of Dorset Council's review, considering the Consequences Report provided by the operator (dated September 20, 2019), assessment of the area and application of REPPIR 2019, is that while the REPPIR DEPZ has been updated with detail of new housing developments in some areas, the overall boundaries remain the same as before 22 May 2019.
- Upon receipt of the Consequences Report provided by the operator for the Operational Berth at Portland Port, changes to the local area that impact on emergency arrangements were not deemed necessary following the latest assessment and application of the requirements of REPPIR 2019.
- Dorset Council will be writing to the regulator, ONR, and the operator, MoD Navy Command, to advise them of this determination. The off-site emergency plan will be revised within 6 months of this determination (or such longer period as the regulator may agree in writing) in consultation with other emergency responders, to ensure proportionate emergency arrangements are in place.

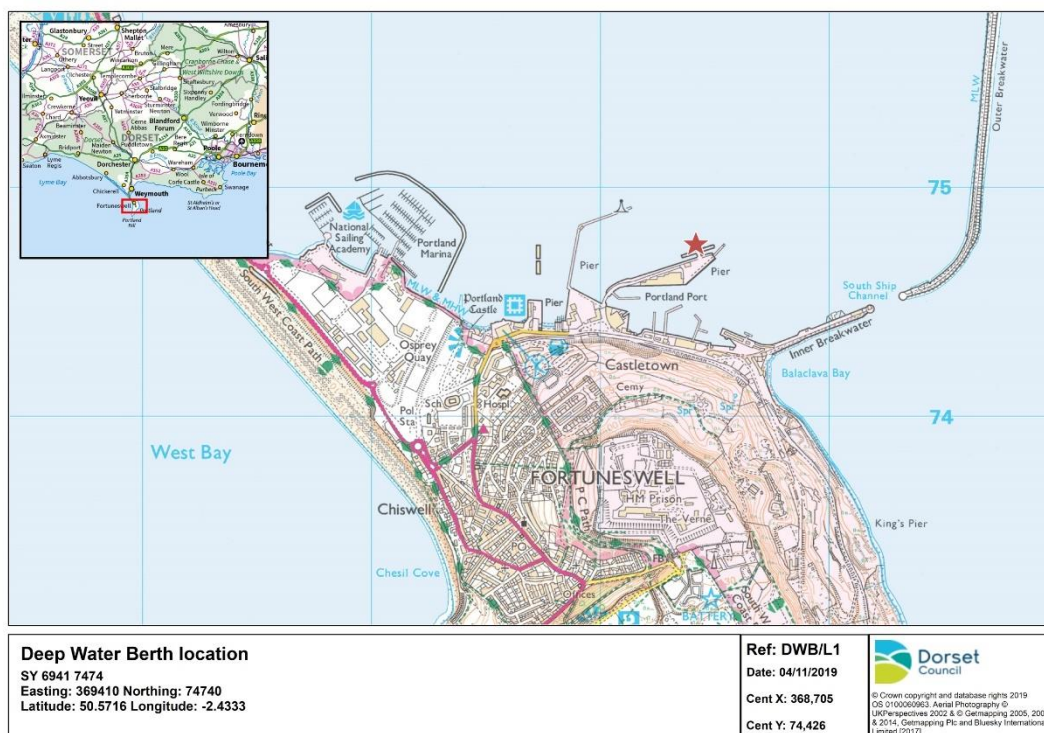
2 Description of the area and the berth

The Deep Water Berth is situated on the Coaling Pier of the Portland Port complex, which is situated to the north of the Isle of Portland.

The area encompassed by the 1.5 km radial distance from the berth point embraces all of Portland port complex including a large part of the harbour, HM The Verne prison to the South, the majority of the residential and commercial properties in Castletown and Fortuneswell to the South-East, part of the Weymouth & Portland

National Sailing Academy, and the whole of the Portland Marina to the north east. The majority of the area encompassed is however located over water.

Portland Port Deep Water Berth location



Overview

Portland is an island linked to the mainland at Weymouth by a causeway. The area has a significant resident population and because it is a holiday destination high levels of transient population during the summer months can be experienced. Individual events can attract several thousand visitors in one day. Nuclear Powered Vessels (NPV) visits will be de-conflicted with these events and as such the impact on transient population is debated in the main plan.

Resident Population Data

The resident population for Portland was approximately 12,720 (ONS mid-year 2017) with a further 53,030 residents in the Weymouth area. The figures are centred on the berth. The number of residential properties in the area is also presented below.

Table 1: Summary of residential properties data

Berth	No of domestic addresses within 0.5 km	No of domestic addresses within 1.5 km	No of domestic addresses within DEPZ	No of domestic addresses within 5 km
Deep water berth Portland	0	1,910	2,185	16,020

The area identified as DEPZ holds a number of 3,845 residents. There is no resident population within 0.5 km of the berth, most inhabitants living within the areas of Fortuneswell and Castletown.

Table 2: Detailed residential data within the DEPZ area

Residential Population - night time	3,845
Residential population – day time, term time	1,300
Residential population – day time, non-term time	1,700
Child care population (number of locations)	26 (1)
School population (number of locations)	315 (1)
College population (number of locations)	40 (1)
Prison population (number of locations)	580 (1)
Hospital beds (number of locations)	15 (1)

Table 3: Other features and facilities

Portland Port	700 vessel visits per year. Cruise passenger throughput of approximately 26,500 in 2015.
Portland Bunkers International Site	Top tier COMAH site
Portland Marina	560 berths

Other places of interest include the National Sailing Academy which has the ability to host significant dinghy sailing events (600 dinghy spaces and 125 protected marina berths).

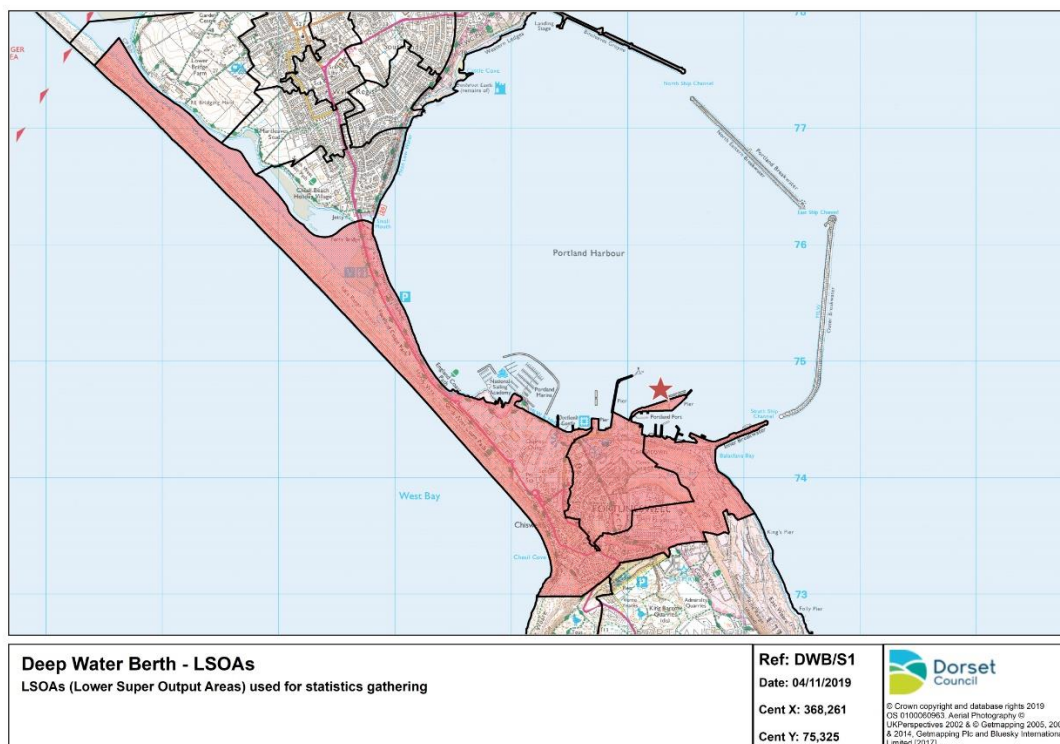
Employment in and around the port

The smallest geographical area for which employment data can be obtained is lower super output area (LSOA). The port falls in two LSOAs (see map), but the whole area covered by these is considerably larger than the port itself.

On the map below, the area shaded pink shows the two LSOAs, one nestled within the other. The smaller area is described as Fortuneswell North and the larger area is

Fortuneswell South. Employment in Fortuneswell North is approximately 450 and in Fortuneswell South it is 2,000. The total for the combined area is 2,250¹.

LSOA map – employment data



The biggest sector for employment is human health and social work with around 800 employees. The next biggest sector is manufacturing with an estimated 400 employees. Close behind this is public administration and defence with 300, accommodation and food service with 200 and transport and storage with around 150. Most other sectors had less than 100 employees.

Population surrounding the Berth

Migrant Population Within 10 Km

There are several caravan and camping sites in the vicinity of Portland and these are visited by many thousands of persons each year, particularly during the summer months. None of these are within the DEPZ. There are also hotels and guesthouses on Portland itself with approximately 80 identified. The nearest holiday site to the berth is Chesil Vista Holiday Village (approximately 3 km from the Deep-Water Berth) and comprises 100 mixed units, caravans and holiday homes, sleeping up to 8 persons per unit.

Hospitals within 10 km of the Berth

There are three hospitals within 10 km of the berth, which are operated by the Dorset Health Care Trust. The closest is Portland Community Hospital (~1 km from Deep

¹ The difference is accounted for by rounding of the estimates. Source: Business Register and Employment Survey 2018, Office for National Statistics

Water Berth) which is a health care centre without beds. Westhaven Hospital with 34 beds (~5 km from Deep Water Berth). Also, there is the Weymouth Community Hospital with a Minor Injuries and Outpatient Unit at just over 5km distance.

Within 10 km there are also many residential care homes. Of these there are none within the DEPZ area. Details of these homes are shown below in Table 4².

Table 4: Residential care homes within 10 km of the Berth

Location Name	Care Home Beds	Location Name	Care Home Beds
Ingleside Residential Care Home	17	The Lawns	14
Crecy Care Home	40	Danmor Lodge Limited	25
Bosworth Care Home	20	Kingsley Court	19
Rodlands Care Home	21	Friary House	16
Agincourt Care Home	31	Buxton House	64
Primrose Lodge Weymouth	38	Elsadene	13
Trafalgar Care Home	29	Legh House	19
Goldcrest	26	Chestnuts Residential Home (Weymouth)	13
Weymouth Aftercare Centre	15	Fairfield House	16
The Lawns	14	Weymouth - Weymouth Care Home	35

Within 5 km of the Berth there is one operational HM Prison, the Verne, which has a capacity for 580 inmates and is a Category C Prison. There is also a Young Offenders Institute (YOI) located in the Easton area of the island. Within the Portland area there are also several schools. Only one school is located within the DEPZ. Information pertaining to Weymouth and Portland schools is covered in Table 5.

Table 5: Schools within Weymouth and Portland

SITE	AGE_RANGE	Number on Roll
All Saints CE School, Weymouth	11 - 16	852
Atlantic Academy Portland - Maritime House	4 - 19	811
Beechcroft St.Paul's CE VA Primary School	4 - 11	210
Bincombe Valley Primary School and Community Nursery	4 - 11	348
Budmouth College	11 - 18	1639
Chickerell Primary Academy	4 - 11	406
Conifers Primary School	4 - 11	409
Holy Trinity CE VC Primary And Nursery Unit	4 - 11	592
Radipole Primary School	4 - 11	445
Southill Primary School	4 - 11	214
St Andrews CE VA Primary School	4 - 11	315
St Augustine's Catholic Primary School	4 - 11	209
St George's Primary School, Portland	4 - 11	470
St John's CE VA Primary School, Weymouth	4 - 11	241
St Nicholas & St Laurence CE VA Primary School	4 - 11	208
The Compass Centre		39
The Wey Valley School	11 - 16	829
Westfield Arts College	3 - 16	208
Wyke Regis CE Junior School	7 - 11	361
Wyke Regis Infant School and Nursery	4 - 7	313
Wyvern School	3 - 18	88

² Dorset County Council 2018

3 Determination information and justification

- In line with Regulation 8(3), a map showing the extent of the determination area is presented in Appendix A, while a map of the detailed planning (individual walk routes) within the outline planning zone is included at Appendix B. Considering the explanations below, Dorset Council has agreed to a no-change approach to the existing DEPZ.
- Both the REPPiR off-site emergency planning and the prior information areas for the Portland Operational Berth have already been re-defined by ONR together with Dorset County Council (DCC) Emergency Planning Service (EPS) in 2016/2017, by recognising and formalising the already existing good practice undertaken by Dorset County Council and applying the determination principles under Regulation 8(1) – local geographic, demographic and practical implementation factors. These principles have not changed.
- The application of these principles has identified an area that was and continues to be both sensible and practical from an emergency planning perspective.
- The DEPZ (Appendix A) can be described as *an area that extends beyond the minimum radial distance of 1.5 km from the centre point of the operational berth (grid reference SY 6941 7474), with the boundary following in the main, the already existing Dorset Council off-site emergency plan boundary, the inner edges of roads, property boundaries and distinctive pathways on land, and with a radius of 1.5 km across all marine areas. The area includes all of Castletown and Fortuneswell.*
- Detailed justification for selecting and maintaining the current DEPZ for the Portland Operational Berth has already been covered in previous ONR and Dorset County Council assessments (Project Assessment Report ONR-COP-PAR-16-002, TRIM Ref: 2016 / 0209653, ONR-COP-EPR-16-111).
- The DEPZ identified is in turn sub-divided into several detailed planning areas (see Appendix B), allowing for the response to be scaled up or down depending on the severity of the incident, weather conditions, and resources available.
- Minor changes have been included in updating specific DEPZ walk routes with information pertaining to newly developed properties in Castletown; these have been captured in the local detailed Operational Berth SIT'S Distribution Plan for Portland. These changes do not however affect the shape or characteristics of the determination area.
- Over the next six months the REPPiR off-site emergency plan will be reviewed, and where necessary revised in line with REPPiR 2019, and in consultation with local emergency services, health authorities, operators, and other organisations that Dorset Council believes appropriate. This will include consideration of the extent to which protective actions may be needed within the detailed emergency planning zone, as well as within an extendibility area stretching out to 5 km – namely an outline planning zone (OPZ).

4 Conclusion

This document sets out the background and main considerations given by Dorset Council, as off-site duty holder, in agreeing the DEPZ for the Portland Operational Berth (known as the Deep-Water Berth at Portland Port). In doing so it took into account and acknowledged all previous work already carried out, comments made during recent meetings with the Operator and Regulators, the Consequence Report, and the application of determination principles.

Based on the above considerations, Dorset Council has agreed to a no-change approach to the current DEPZ, as this provides for an effective and credible resolve to securing the protection of the public and restriction of exposures so far as is reasonably practicable, in the event of a reasonably foreseeable radiation emergency.

As such, Dorset Council advises that the REPPIR off-site emergency planning area has been determined as the area within the red line on the map at Appendix A. This information will be copied to Navy Command acting as the MOD Operational Berth on-site duty holder, the Office for Nuclear Regulation (ONR) as the Regulator, as well as other key stakeholders.

This determination starts on 19 November 2019 and has been signed off by the chairman of the Operational Berth Issues Group (OBIG) for Portland, and the Dorset Council Service Manager for Assurance.

Date: November 12, 2019

Signed

Marc Eyre

Service Manager for Assurance

Dorset Council

Dr Ovi Rominger

*Emergency Planning Management
Officer and OBIG chairman*

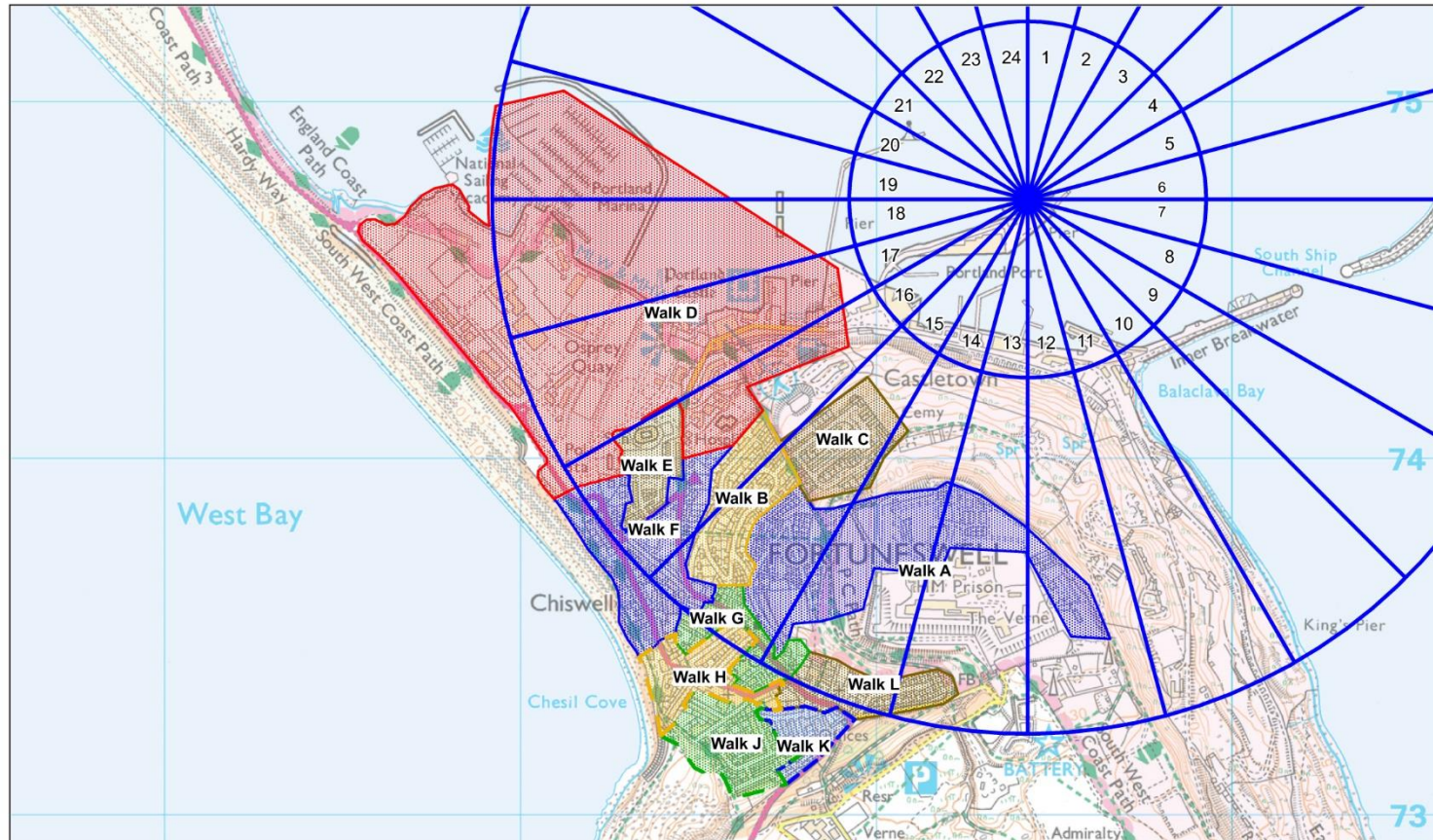
Dorset Council

Appendix A: Detailed Emergency Planning Zone for Portland Port Operational Berth



<p>Deep Water Berth - Detailed emergency planning area</p> <p>★ Deep Water Berth</p> <p>□ Detailed Emergency Planning Area</p>	<p>Ref: DWB/A1</p> <p>Date: 07/11/2019</p> <p>Cent X: 369,306</p> <p>Cent Y: 74,572</p>	 <p>© Crown copyright and database rights 2019 OS 0100060963 Aerial Photography © UK Perspectives 2002 & © Getmapping 2005, 2009 & 2014, Getmapping Plc and Bluesky International Limited [2017]</p>
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Appendix B: Individual planning zones (detailed walk routes) within the Portland DEPZ



Deep Water Berth - Individual Planning Zones and Walk Routes

Ref: DWB/Z1
Date: 04/11/2019
Cent X: 368,575
Cent Y: 74,097

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