

















Devonport Local Liaison Committee (LLC) 2 February 2023



O N E DEVONPORT

Domestics































Purpose and Agenda

- 1. Chair's Opening Remarks
- 2. Terms of Reference
- 3. Minutes of Last Meeting
- 4. Action Updates and Matters Arising
- 5. Devonport Site Safety & Operational Updates
- 6. Questions From Committee and Public (1)
- 7. Coffee Break
- 8. Plymouth City Council (PCC) Matters
- 9. Regulators' Reports
- 10. Questions from Committee and Public (2)
- 11. AOB / Date Of Next Meeting
- 12. Chair's Closing Remarks & Review of Actions





















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Reports and Documents on Table

- Agenda
- Minutes of Local Liaison Committee 6 Oct 2022
- Copy of all presentation slides for this meeting
- Office for Nuclear Regulation report (Jul Dec 22)
- Defence Nuclear Safety Regulator report (Jul Dec 22)
- Environment Agency LLC report (Jul Dec 22)
- Plymouth City Council LLC report
- Devonport infographic
- Draft Terms of Reference
- Siren False Alarm Protocol

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1. Opening Remarks

Busy & Safe – continued investment in Devonport whilst delivering operational capability to the Fleet.

















2. Terms of Reference

- Minor Update performed.
- Aimed at increased focus on:
 - Openness
 - Two way communication
 - Nuclear Site Operations

Any Comments / Proposed Amendments?





3. Minutes of Last Meeting – 6 Oct 2022

Comments / amendments



















4. Action Updates

Number	Action	•
MOD 01/22	To provide LLC with brief on timescales for the submarine defuel and dismantling programme. Presentation to be given later in this meeting.	<
MOD/ PCC 02/22	The false alarm protocol between the Devonport Site and PCC be made available to the committee. False alarm protocol shared.	S S S S S S S S S S S S S S S S S S S
EA 03/22	Naval Base's quarterly reports for river discharge to be shared with member of the public via email. Information emailed to member of the public.	t
MOD 04/22	A letter was submitted by a member of the public to NBC with a written question. Written response provided direct to the member of the public.	
MOD 05/22	The draft TORs will be circulated to members for comment, with a view to accepting these at the next meeting.	
	Draft TORs shared in advance of meeting.	















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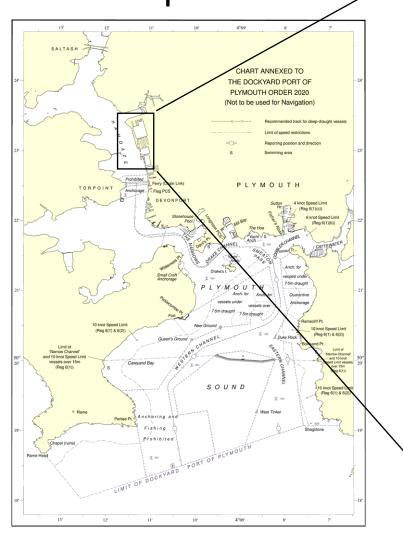


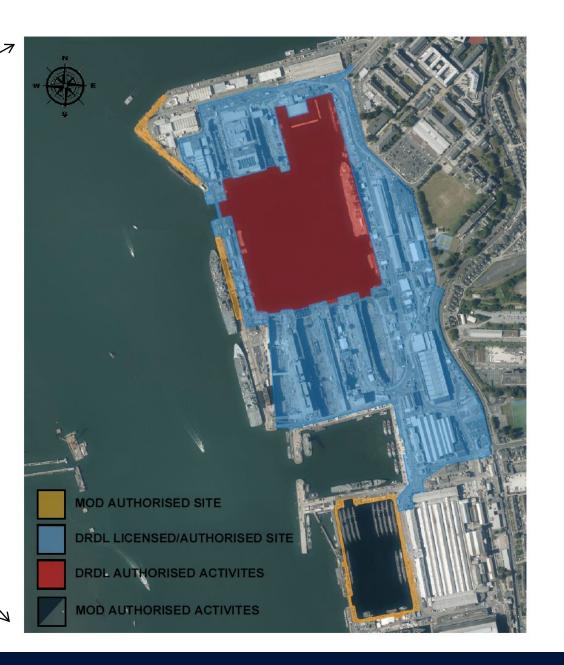
5. Devonport Site Safety & Operational Updates

- Operational update
- Nuclear / radiological safety
- Environmental safety

O N E DEVONPORT

The Devonport Site























Naval Base Nuclear Operations





- T Class Submarines
 - One submarine continues long term berthing preparations following retirement from service
 - One submarine in service
 - A Class Submarines
 - Preparations underway to support A class maintenance

















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Babcock Update – Current Operations

- T Class Submarine preparations for safe long-term berthing
- V Class Submarine in Deep Maintenance Period continues following successful undocking
- Multiple Surface Ship platforms in various stages of refit





Babcock Site Events

















- Babcock have reported 14 INF1 / DINF1 to the Regulator during this period
- All events were rated as INES Scale 0 (below INES scale)
- Note: Events rated as INES 0 are events without safety significance

(INES – International Nuclear and Radiological Event Scale)



HMNB(D) Site Events



- > 1 x DINF1 event : Categorisation @ Level 0,
- > Ex-HMS TURBULENT Pressure Control.















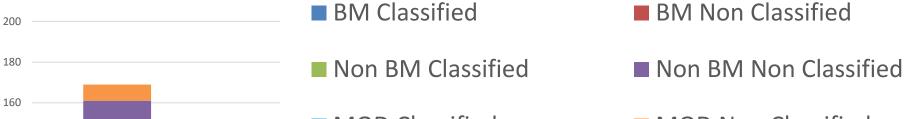






Devonport Site – Collective Dose (person mSv)









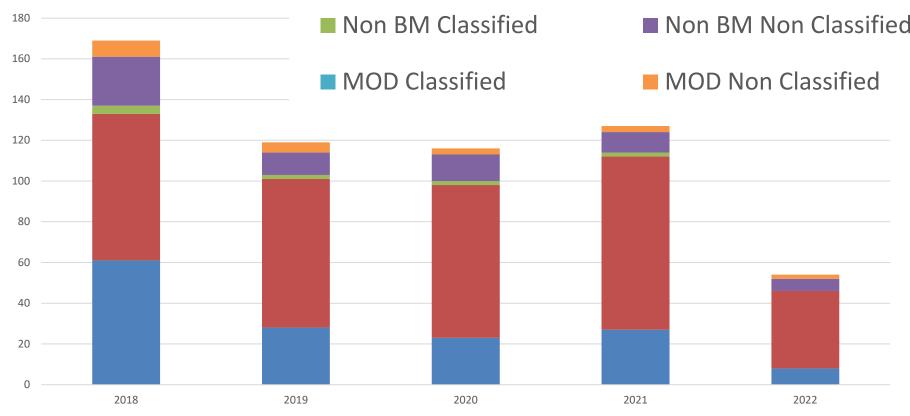
Submarine Delivery Agency













Emergency Arrangements

- HMS Raleigh Siren
- Various dates from May—Sept support to PCC's Off-Site Emergency Plan
- Annual demonstration exercise October 2022
- Annual communications exercise December 2022
- Transport emergency plan exercise September 2022



















Radioactive Waste Discharge Summary

DEVOCALITY OF THE PROPERTY OF
- Area

	2018	2019	2020	2021	2022	Limit	
Tritium (GBq)	12	5	8	11	2.39	700	
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		2018	2019	2020	2021	2022	Limit
	Tritium (GBq)	12	5	8	11	2.39	700
Aqueous	Co-60 (GBq)	0.01	0.002	0.002	0.001	0.001	0.8
Discharges to Tamar	C-14 (GBq)	0.03	0.03	0.02	0.03	0.008	1.7
	Others (GBq)	0.03	0.003	0.005	0.003	0.001	0.3
_	Tritium (GBq)	0.047	0.040	0.014	0.008	0.006	2
Aqueous to Sewer	Co-60 (GBq)	0.003	0.002	0.002	0.001	0.001	0.35
OCWCI	Others (GBq)	0.076	0.062	0.043	0.032	0.002	0.65
	Tritium (GBq)	0.367	1.73	0.842	0.100		4
	C-14 (GBq)	0.315	0.250	0.200	0.170	Not yet	66
Gaseous	Ar-41(GBq)	0.009	0.005	0.009	0.002	available	15
	Beta Particulate (GBq)	0.00002	0.00002	0.00002	0.00001		0.0003

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Disposal of trace contaminated water

- New disposal route for trace contaminated water implemented by Naval Base in Oct 2022
- Reported discharge radioactivity levels based on Minimum Detectable Activity (MDA) values
 - MDA = the lowest level of radioactivity that can reliably be detected
 - No radioactivity above MDA values measured in 2022 discharge samples
- 2022 Discharge Data:
 - 15.75 m³ water discharged
 - 0.02 MBq ⁶⁰Co (2.43% of annual limit)
 - 0.17 MBq ³H (0.17% of annual limit)
 - 0.26 MBq other radionuclides (2.56% of annual limit)

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Discharge Assurance Activities

- Permission to implement river discharge granted by Facility Operator following an extensive Operational Readiness Review.
- First river discharge witnessed by representatives from both Nuclear Safety Assurance and Facility Operator teams.
- Independent review of process and records conducted by Naval Base Radioactive Waste Adviser.
- Environment Agency inspection in November 2022.



Marine Environmental Monitoring Sampling

Results - 2022

- Samples taken regularly from numerous sites in the local area.
- Analysis of 2022 samples shows:
 - No cobalt-60
 - Low levels of tritium and carbon-14
 - Low levels of other nuclides
- No significant radiological hazard.





















Devonport Site Update – Summary



• The health and safety of our workforce and the general public remains the highest priority for both MOD and Babcock.



Nuclear submarine activities continue to be undertaken safely as planned.



• The independent site Regulators continue to maintain a strong presence.



• Environmental monitoring continues to show no significant radiological hazard as a result of activities on the site.



babcock









Submarine Disposal & Devonport Infrastructure Team Mission and Vision Statements

Vision

Coherently delivering Defence major projects to maintain and dispose of nuclear submarines now and in the future.

Mission

Collaboratively working with our Industrial Partners, to successfully develop and sustain a high performing team, trusted to deliver Defence major projects to maintain and dispose of nuclear submarines

In partnership with



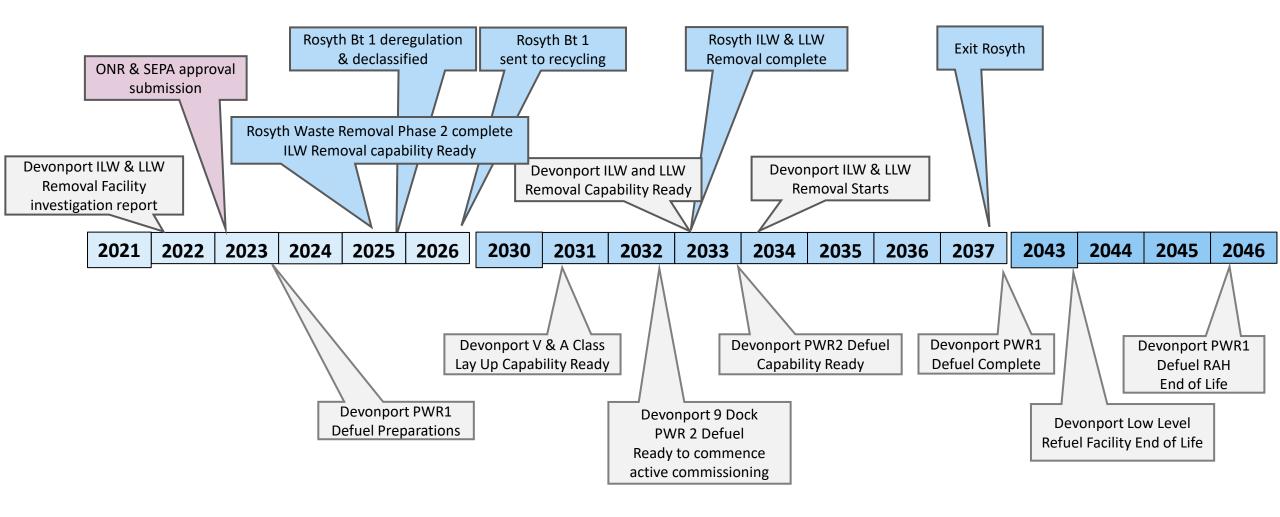


Disposal within the Submarine Life Cycle Fleet Non **Operational** Date Disposal **INDUSTRIAL CAPABILITY SQEP** Infrastructure Disposal Technology **Processes** Storage Information Organisation Decommission Defuel Dismantle Recycle

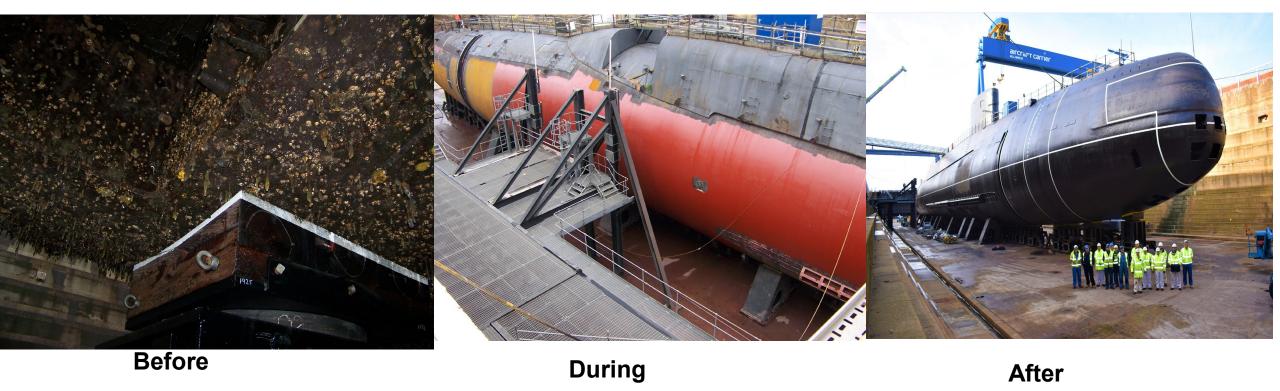
So, what is going on?

- 1. We have 7 ex-service nuclear submarines decommissioned and stored afloat in Rosyth
- 2. We have 13 ex service nuclear submarines decommissioned and stored afloat in Devonport
- 3. We have 2 ex-service submarines undertaking decommissioning activities in Devonport
- 4. We are finalising dismantling capabilities in Rosyth and plan to complete the dismantling of the first PWR1 submarine at Rosyth dockyard by 2026
- 5. We are finalising defuel capabilities in Devonport and plan to complete defuel of a PWR1 submarine by 2027

Submarine Disposal Programme – Indicative Plan to 2046



Storing/Maintaining ex-service submarines



- Submarine integrity, safety and security:
 - Is achieved through annual afloat maintenance and periodic Survey and Docking Periods
 - Long term berthing at Authorised facilities in Devonport and Rosyth
 - Hull preservation in nuclear Licensed dock facilities in Devonport and Rosyth

Low-level Radioactive Waste (LLW) removal continuous improvement

SWIFTSURE

- December 2016-August 2018
- 52 tonnes potential LLW removed
- Majority of metals recycled



- November 2018-March 2020
- 77 tonnes potential LLW removed
- 50% increase in LLW removed
- 25% reduction in time



- March 2020 start
- 120 tonnes potential LLW to be removed
- Further 50% increase in LLW removed





- Great HSE track record for LLW removal with over 1 million hours worked since last RIDDOR
- No environmental incidents reported to SEPA since work started Dec 2016



6. Questions & Answer Session 1



Questions from the Local Liaison Committee members













then

Questions from members of the public attending the Local Liaison Committee.



7. Break

















8. Plymouth City Council



Julian Setterington

Civil Protection Officer



Nuclear Regulation

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9. External Nuclear Regulators

• Office for Nuclear Regulation (ONR)

• Defence Nuclear Safety Regulator (DNSR)

Environment Agency (EA)



Office for





Devonport Local Liaison Committee Meeting – February 2023

Vik Winspear-Roberts – ONR Principal Inspector





Devonport Local Liaison Committee Meeting – February 2023

Verbal Update

Mark Carter – DNSR Inspector Reactor Maintenance



Devonport Local Liaison Committee Meeting – February 2023

Verbal Update

Richard Lee – EA Nuclear Regulator





10. Questions & Answer Session 2



then

Questions from members of the public attending the Local Liaison Committee.



















11. Any Other Business

Date of next meeting tbc – July 2023





















12. Review of Actions & Chair's Closing Remarks 🧆















