

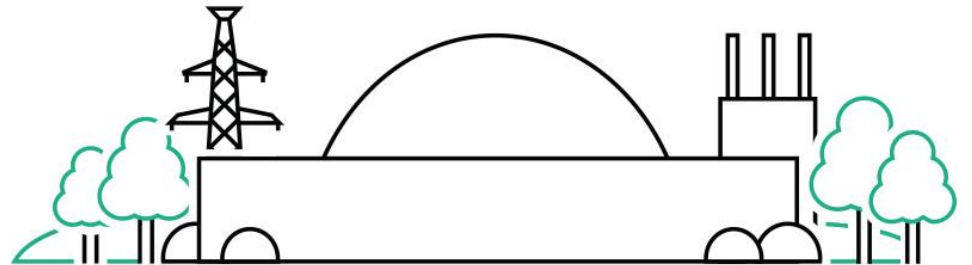


Office for
Nuclear Regulation

ONR NGO Forum

London

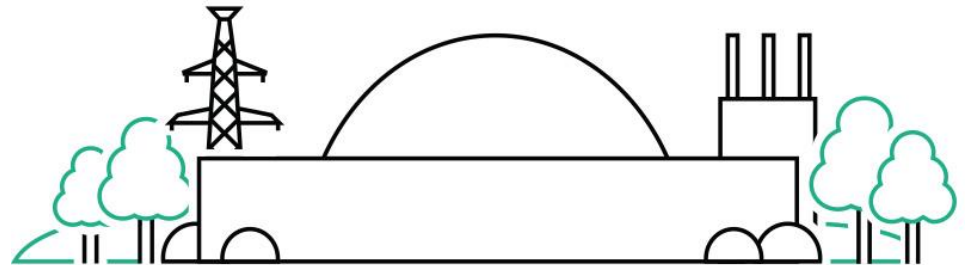
17 April 2024





Welcome, introductions and matters arising

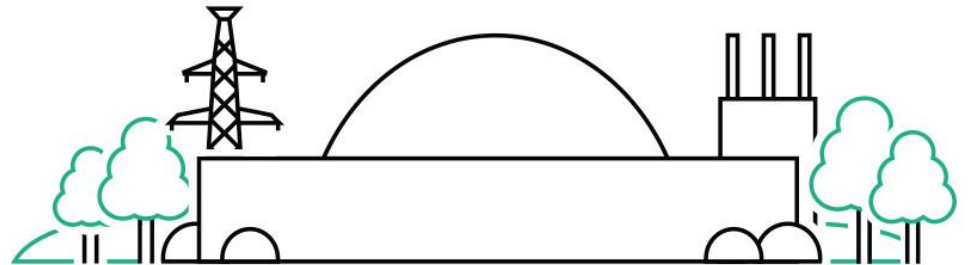
Rachel Grant and Dr Jill Sutcliffe





Update from ONR Chief Executive and Chief Nuclear Inspector

Mark Foy



Update from ONR CE/CNI

- AGRs
- Taishan
- Sizewell C
- Sellafield cyber security concerns
- Ukraine and Zaporizhzhya



AGRs

- EDF end of generation at all AGRs by 2030
- Hinkley Point B, Hunterston B and Dungeness B have stopped generating permanently
- Defueling of Reactor 3 at Hunterston B is complete
- Good progress on remaining reactors at Hunterston B, Hinkley Point B and Dungeness B
- EDF intends extending the operational life of Heysham 1 and Hartlepool for a further two years - March 2026
- ONR reviewed the lifetime extension strategy and had no objections
- ONR will continue to assess safety cases and permission activities where appropriate
- ONR continues to engage with EDF re the life-limiting features – graphite and boilers
- EDF is reviewing the lifetime for Sizewell B (PWR) - potential life extension from 2035 to 2055



Taishan Fuel Failures Update

- No further update since last NGO forum
- ONR attending EPR working group in Paris next week – ONR, ASN, NNSA and STUK
- No change in the position for HPC and SZC
- HPC schedule rebase line - Additional time to address issues
- Taishan Unit 1 returned to service in late 2023
- Olkiluoto 3 is still in first refuelling outage - No information on any issues or how it is progressing. An update is anticipated in the regulators working group meeting



Sizewell C Nuclear Site Licence Decision

- Original nuclear site licence application submitted June 2020
- June 2022 – ONRs assessment concluded that the application met almost all the regulatory requirements, but two matters outstanding:
 - *Security of land tenure*. At that time SZC Ltd did not have full rights of access to the land proposed for the SZC.
 - the *shareholders' agreement* placed control of key policies relating to safety and security with a holding company, rather than the licence applicant.
- NSL not granted - Both matters have subsequently been resolved
- ONR has undertaken a proportionate reassessment of the application, focusing on these two items
- Decision within next few weeks – Finalising assessments, awaiting confirmation on two other matters - funding and third-party liability insurance position



Sellafield cyber security concerns

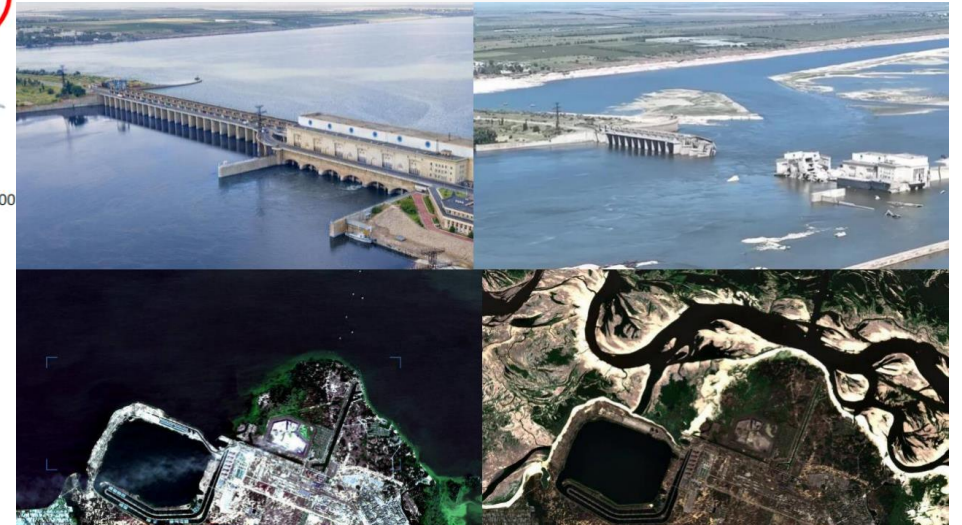
- ONR prosecuting Sellafield Ltd - alleged information technology security offences between 2019 and early 2023
- No suggestion that public safety has been compromised because of these issues.
- Cyber security within the industry remains an ONR regulatory priority – commitment in the CNI Annual Report



Ukraine and Zaporizhzhya NPP



- All six reactors shut down for a long period
- Five in cold and one in hot shutdown mode
- IAEA monitoring presence on site
- Recent reports of drone attack



Ukraine and Zaporizhzhia

IAEA Board of Governors Resolutions



General Conference
GCF/RES/14
Date: September 2022
Original English

Nuclear safety, security and safeguards in Ukraine

Resolution adopted on 28 September 2022 during the tenth plenary meeting



Board of Governors
GOV/RES/28
Date: 17 November 2022
Original English

The safety, security and safeguards implications of the situation in Ukraine

Resolution adopted on 17 September 2022 during the 1847th session

General approach to recovery:

- Carrying out a general assessment of the possible impact of military actions on the NPP facilities, SSCs;
- Inspections sequences establishing;
- Development of inspection programs and their implementation schedules;
- Analysis of inspection results and preparation of reports;
- Performance of safety assessments in case of detection of safety deficiencies;
- Development and implementation of organizational and technical measures to eliminate safety deficiencies.



Restoring State Safety Regulation



ДЕРЖАВНА ІНСПЕКЦІЯ ЗАПОРІЗЬКОЇ РЕГІОНАЛЬНОЇ УМОВАНИ
UKRAINE

STATE NUCLEAR INSPECTORATE OF UKRAINE

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факс: (044) 254-33-11
Е-пошта: info@nsi.gov.ua
Сайт: www.nsi.gov.ua
код ЄАНВР: KZP007 7171086

Адреса: м. Київ, вул. Кривої, Корп. 0011,
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Сайт: www.nsi.gov.ua
код ЄАНВР: KZP007 7171086

№ _____, в. № _____, під № _____

Директор: ДИТІ ІПС
Горис ШЕРШЕНЬ

Про відновлення державного регулювання безпеки експлуатації ядерних установок на майданчику ЗАЕС

Шановний пане/пані!

Починаючи з 4 березня 2022 року промисловий майданчик та ядерні установи Зaporizької АЕС перебувають під контролем військових російської федерації. Відновлення державного регулювання та ядерних установок після докорінної модернізації Зaporizької АЕС є одним з пріоритетних завдань Державного регулювання. Наразі складної задачею чи макрокритерієм рекомендації щодо регулювання безпеки у складних умовах відсутні.

Ранні в тилі, Комітет Державного регулювання безпеки розробили та підготували Нарядження агентства з радіаційної та ядерної безпеки (ДНА), яке розробленою документація:

1) «Розроблений підхід до державного регулювання безпеки ядерних і радіаційних об'єктів, розташованих у Чорнобильській зоні відчуження, від звичайної вищої безпеки»;

2) «Розроблений порядок виконання різних безпекових ядерних та радіаційних об'єктів у Чорнобильській зоні відчуження, від звичайної вищої безпеки»;

3) «Порядок виконання проекту ДИТІ ІПС розробленої програми виконання державного регулювання безпеки експлуатації ядерних установок Зaporizької АЕС після їх докорінної модернізації». «Розроблений підхід до державного регулювання безпеки ядерних і радіаційних об'єктів, розташованих у Чорнобильській зоні відчуження, від звичайної вищої безпеки» (далі – «Підхід»). Додаток до 11 стор. 4 і трічі.

Виключений об'єкт ЄАНВР – Головний державний інспектор і керівник у радіаційній безпеці України

Окремий КОРИК

Висхідний код: 7171214

QR code and barcode area.



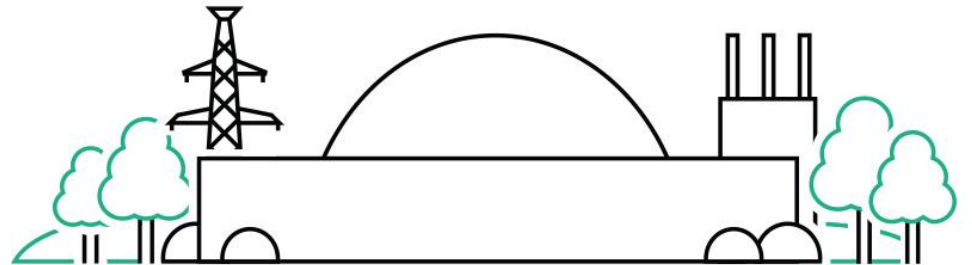
Q & A – Jill Sutcliffe to Chair





National Policy Statement for new nuclear power generation: new approach to siting beyond 2025 – update.

Kobina Lokko, ONR Senior Policy Advisor



Update to cover

What we will ask?

Influencing and advice

What is happening now?

What happens next?

2023 / 2024 ask of ONR

- Development of policy options on siting criteria for the new nuclear NPS
- Development of government response to consultation on siting approach for new nuclear NPS.

“ ...ONR welcomes Government’s structured prior engagement to seek ONR views, alongside other regulators, as a means of properly informing the regulatory elements of its proposals...”

ONR's responses to consultations | Office for Nuclear Regulation

Why are distinctions important Because...



The application of exclusionary demographic criteria during site selection is independent of the detailed safety assessment that is undertaken by ONR prior to the decision to grant (or withhold) a nuclear site licence

[ns-lup-gd-001-land-use-planning-and-the-siting-of-nuclear-installations-1.docx \(live.com\)](#)

Why are distinctions important Because...



Judgements about a developer's readiness to move through stages of the PINs process is for PINs to make.

Why are distinctions important Because...



Judgements about a prospective licensee's readiness to engage with ONR, at any stage of the licensing process, is for ONR to make.

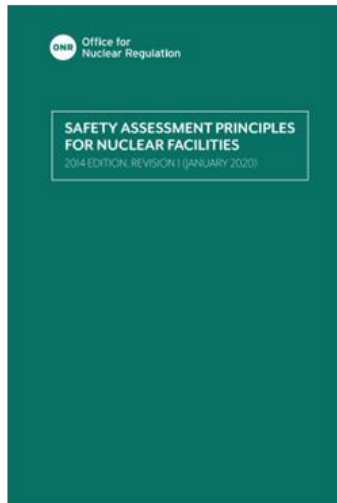
Why are distinctions important Because...

Where planning and
licensing might be aligned
needs to be clear.



Basis for ONR's advice

- Recognised expertise we can bring to bear
- Knowledge of technologies being viewed by ONR's New Reactors Division
- Translating technical matters for government policy makers



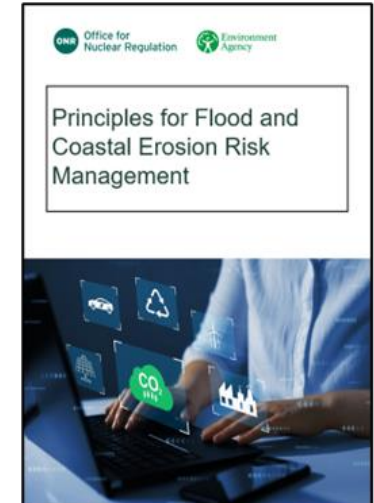
Safety Assessment Principles for Nuclear Facilities (SAPs)



Nuclear Safety Technical Assessment Guide – External Hazards (NS-TAST-GD-013, ‘TAG 13’)



Use of UK Climate Projections 2018 (UKCP18) – Position



Principles for Flood and Coastal Erosion Risk Management – Joint

Why are distinctions important Because...



To ensure ONR's practical assistance/guidance to government doesn't draw ONR back into roles we've relinquished.

Building on established approaches to licensing

“Launching the early engagement framework is one of our key commitments in support of the government’s civil nuclear roadmap.”

Jane Bowie, ONR Director of Regulation, New Nuclear Reactors

“The framework is available to any party requesting early engagement on a proposed reactor deployment in Great Britain, including reactor technology vendors, developers or aspirant licence/permit holders.”

Why is our continued participation important Because...

We will continue to play our part
in informing the government
policy development process
consistent with our distinct and
independent perspective.



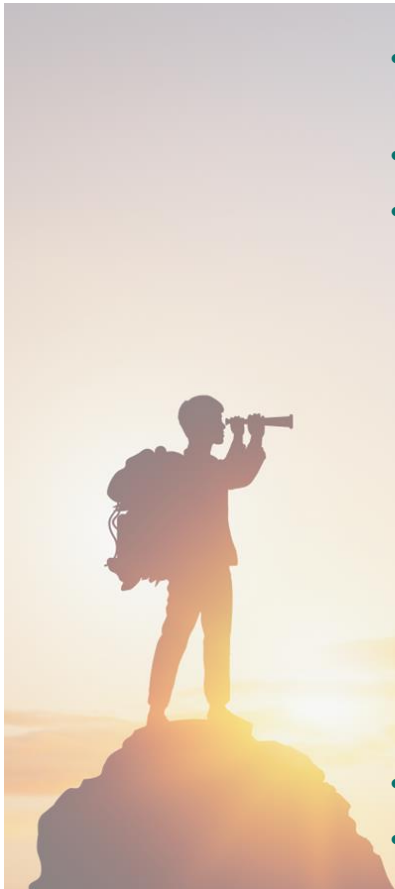
2024 / 2025 ask of ONR



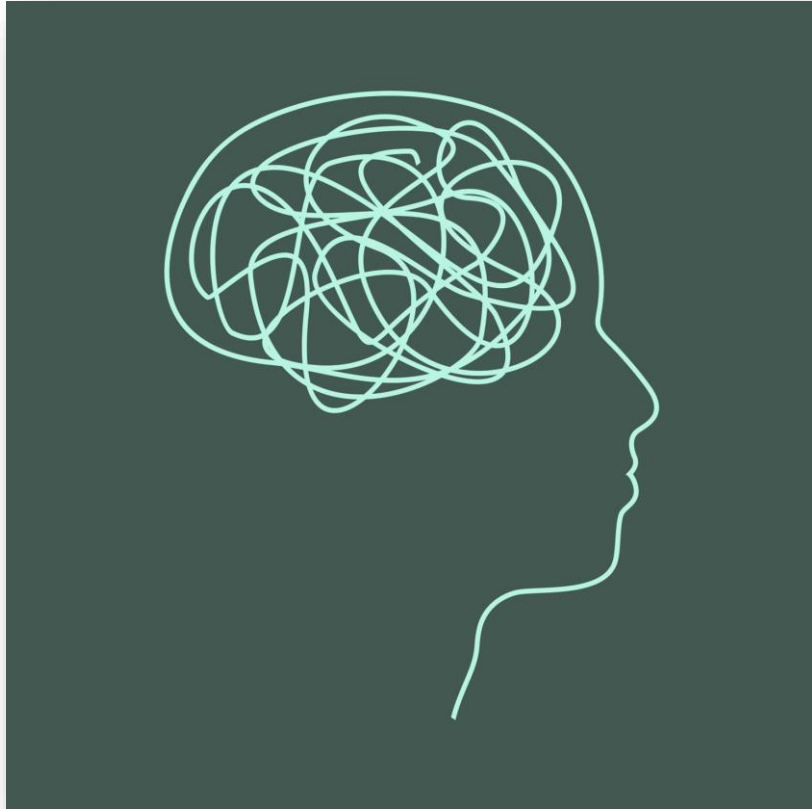
Deliverable	Content
Quantitative Summary of Closed Question Responses (Interim Output)	Spreadsheet containing tables and charts showing the responses to the closed questions by question and by respondent type for each question
Excel Spreadsheet WIP extract (Interim Output)	Quantitative output from processing of responses incorporating responses that have been processed to do date.
Processing of responses	Tagging of themes to responses
Quantitative Summary Presentation (Interim Output)	Presentation containing the tables and charts from the Quantitative Summary of Closed Question Responses shared on 18 March (see above)
Excel Spreadsheet	Quantitative output from processing of all responses
Summary Presentation	Quantitative output of responses with high-level qualitative comments
Draft Analysis Document	Draft analysis of all quantitative and qualitative outputs
Final Analysis Document	Finalised analysis of all quantitative and qualitative outputs

Looking ahead?

- Submit advice to Ministers on how government intends to respond to the consultation – **Spring 2024**
- Publication of government response to the consultation – **Summer 2024**
- Engagement with stakeholders to address key issues arising from the consultation and the implementation model, including meetings with the regulators to discuss e.g.:
 - Water resources – EA, NRW, NE
 - Groundwater protection, flooding – EA, NRW
 - Population density, size of site, multiple reactors and co-generation, proximity to other generating / transport infrastructure (e.g. wind turbines, space ports) – ONR
 - Radioactive waste – ONR/EA
 - Sources of cooling – ONR/EA/NRW/MMO
 - Areas of amenity/landscape value, designated sites of national and international ecological importance – NE
 - HRA – EA, NE
- Agreeing the structure of and progressing policy development of EN-7.
- Starting full Appraisal of Sustainability and Habitat Regulations Assessment.



Emerging consultation themes to consider



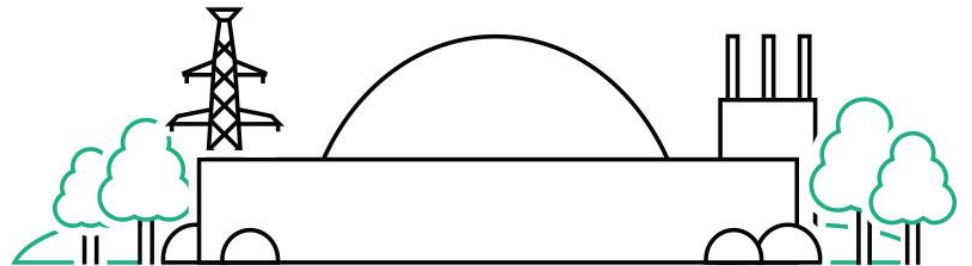
- Criteria based approach
 - Shift from Gov to Industry
 - Site selection / Online tool
- Access to regulators
 - Feedback from consultation highlights requirement for:
 - Early access to regulators
 - Consistent access to regulators

Thank you



Update on ONR staffing and skills

Alistair Hillery, ONR Deputy Director, Technical Division



Resourcing of future demands

- The challenges
- Development of pipelines
- What other measures have we taken
- Resource successes and next steps
- Organisational review
- Workforce planning
- Improving our processes
- Risk informed targeted engagements
- Risk informed site Confidence Levels

The challenges



Industry life cycle

- Design
- Construction
- Operation
- Decommissioning
- GDA
- ANT
- Ageing operational reactor fleet with expected life extensions
- Government infrastructure projects

Development of pipelines

In order to complement our continued recruitment of experienced individuals and widen our demographic we have also over the last few years developed additional pipelines into the organisation.

- Nuclear graduates
- Nuclear Equivalence
- Degree Apprentices



All participants of these pipelines are provided with comprehensive regulatory training, soft skills training, a mentor and line manager to support them through the journey, acknowledging that we need to adapt this to match the starting point of the individuals to create that competent and well-rounded Inspector.

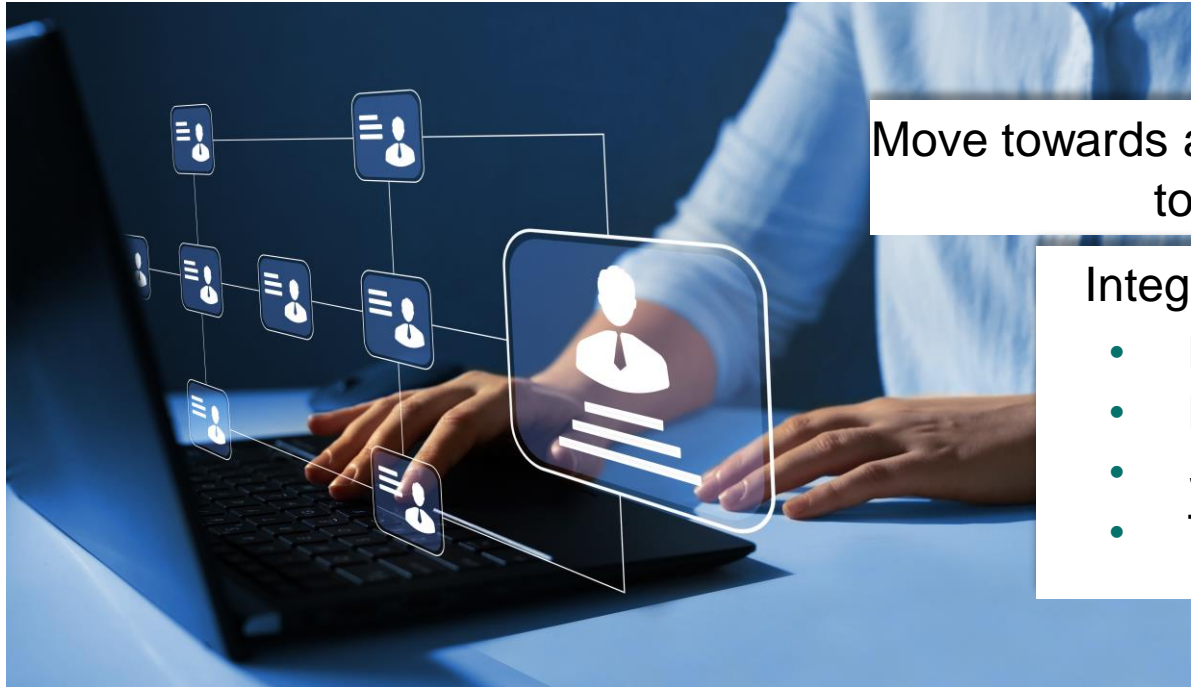
What other measures have we taken?

- Use of different media avenues to seek and attract a more diverse pool of applicants;
- Made changes to our job adverts to make them more inclusive and appealing to applicants;
- Increased our working with external partners including Purple and Verida to help attract a more diverse talent pool;
- Run an 'Always on' Campaign for all nuclear roles;
- Developed a new inspector development programme for new recruits;
- Introduced improvements to our flexible working processes;
- Introduced Market Rate allowances for niche skills.

Successes so far and next steps

- Since 1 April 2023 we have had a total of 2,736 applications for roles in ONR (compared to 1,117 the previous year – **145% increase**) 862 are regulatory.
- 78 new starters have joined the organisation since April 2023 (49 male / 29 female) 50 are regulatory.
- Continue engagement with the UK nuclear sector on the Nuclear Skills Plan via the Nuclear Skills Executive Committee and Nuclear Skills Delivery Board/Group, (ONR have membership on all three levels);
- ONR are part of **Destination Nuclear** (a nuclear specific UK wide campaign for skills);
- ONR are working with the Society of Radiological Protection to promote ways of attracting people into RP across all industries.
- Being agile to the external market reviewing of processes to apply, candidate journey etc;
- Learn from others (continually share best practice with other organisations and with international regulators);
- Continue to explore alternative strategies to fill skill gaps i.e. secondments.

Organisational review



Move towards a structure more closely aligned to functions and people

Integration of purposes

- Nuclear safety
- NSHS
- Security
- Transport (not safeguards)

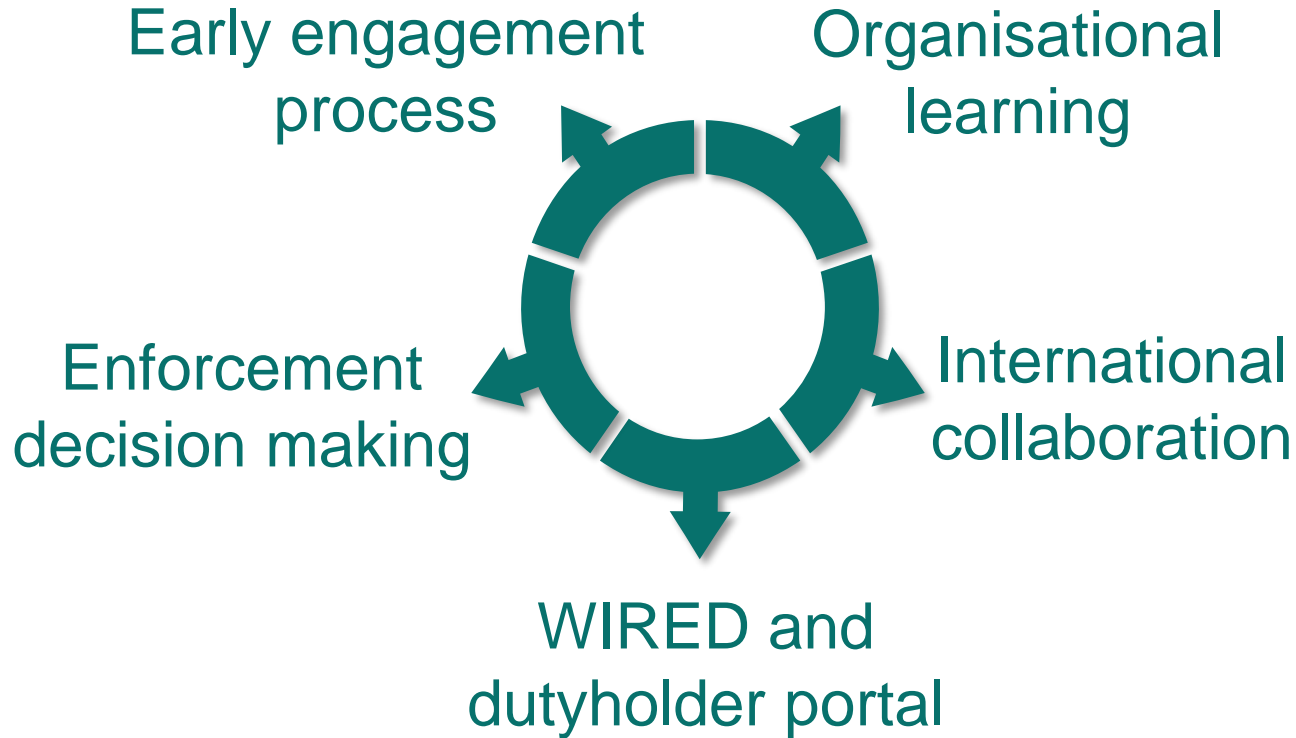
Workforce Planning

Two planning methodologies;

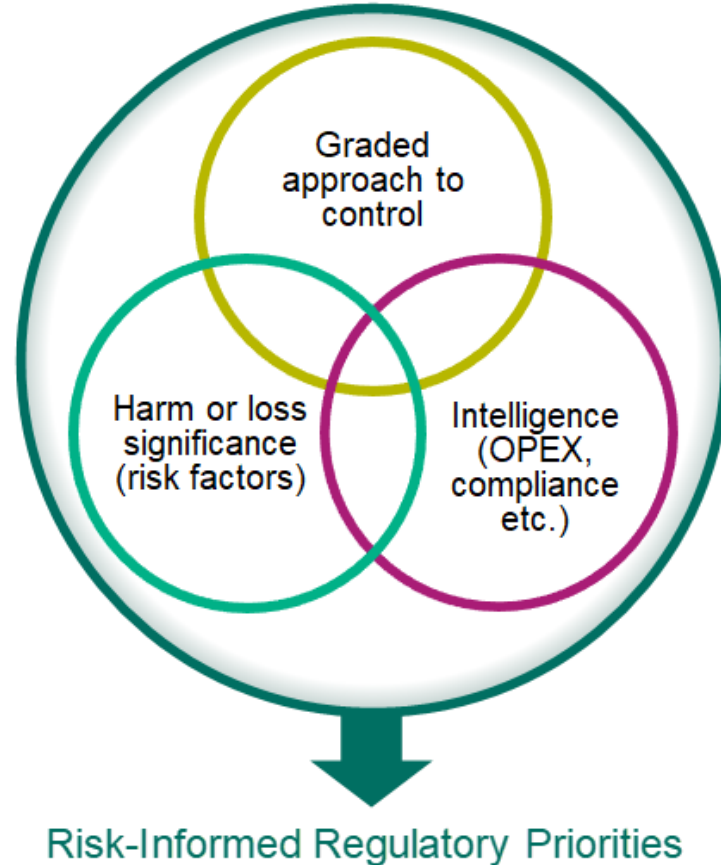
- Tactical
- Strategic



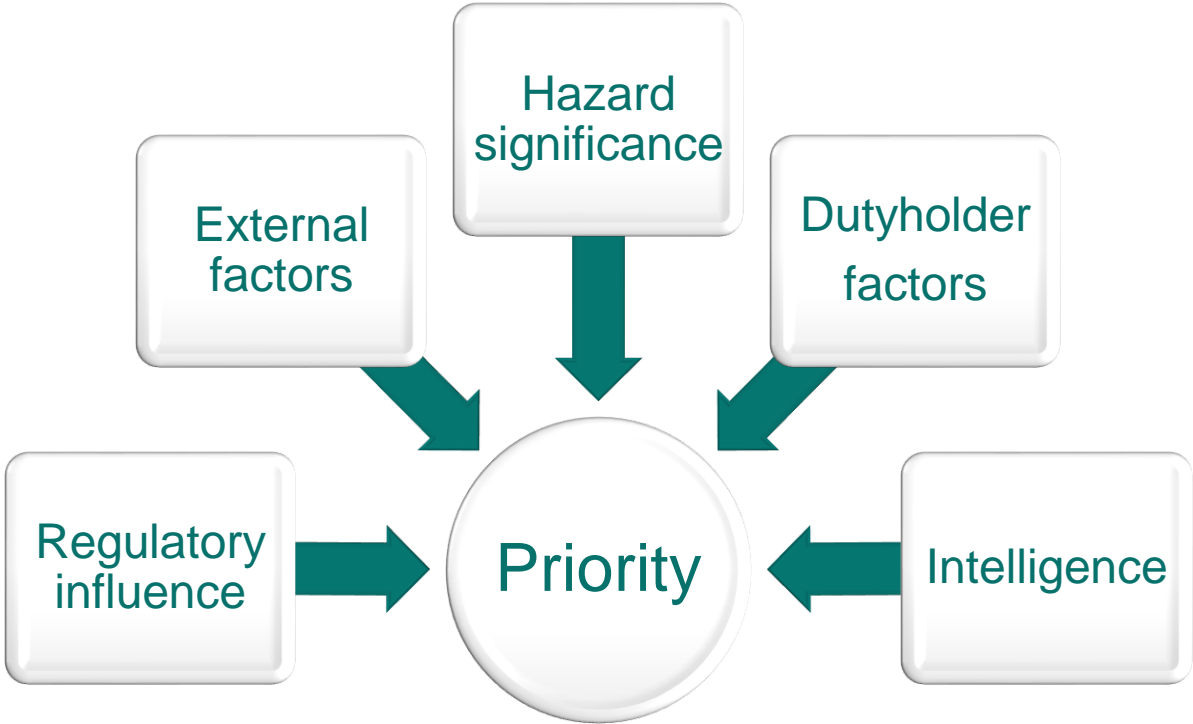
Improving our processes



Risk informed targeted engagement



Risk informed site confidence levels

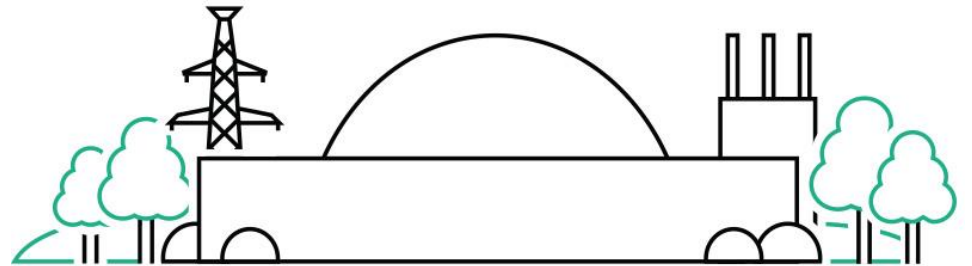


Thank you

QUESTIONS?



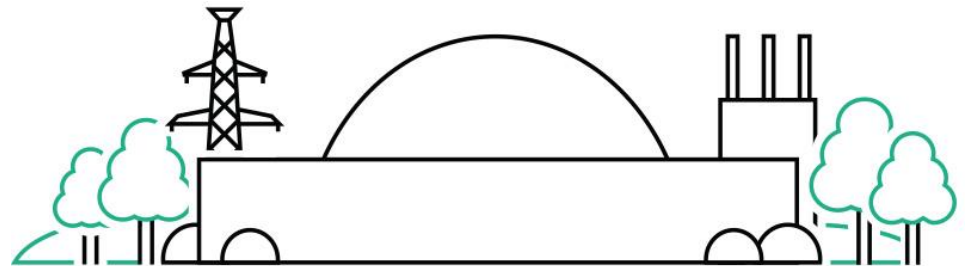
Lunch 12:10 – 13:10





ONR's future strategy – collaborative session

Sarah Brown to lead

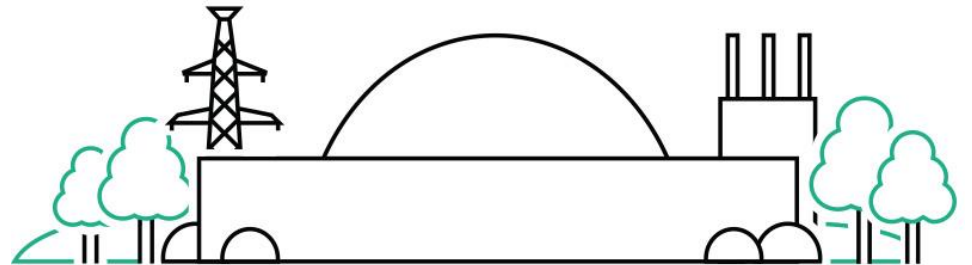




Any other business

Rachel Grant

ONR Director of Policy and Communications





Summary and close

Dr Jill Sutcliffe and Rachel Grant

