

Welcome



Sizewell Stakeholder Meeting

January 2022

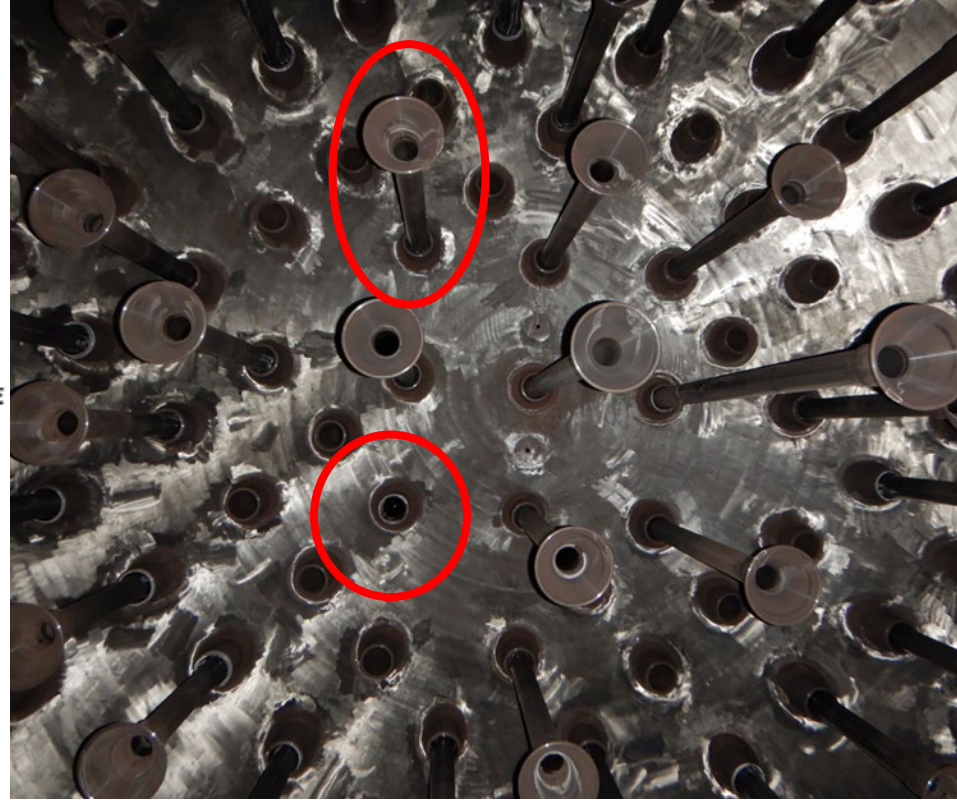
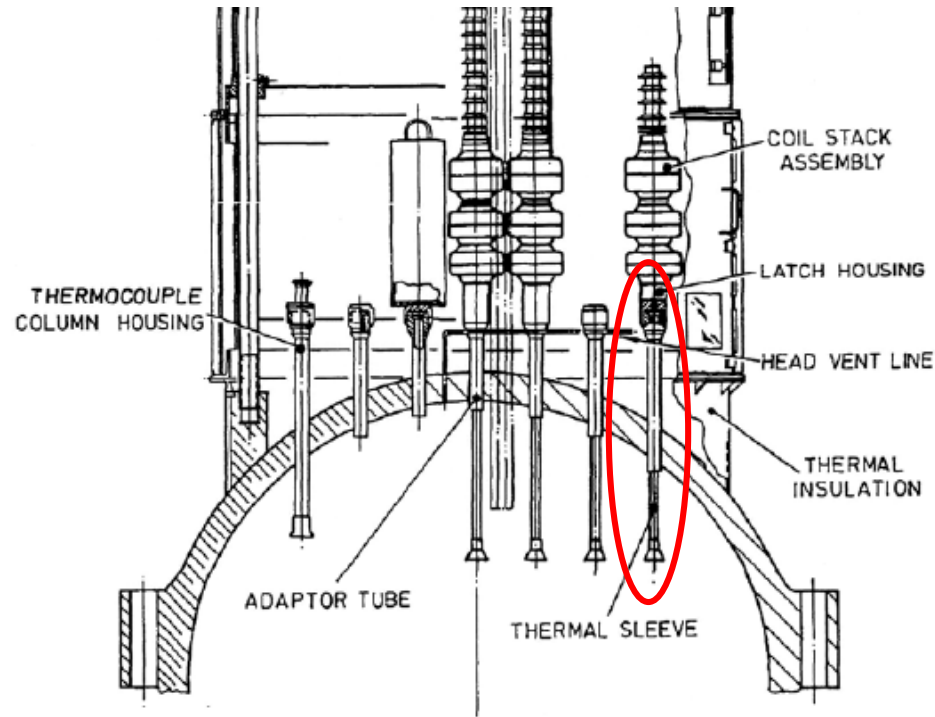


Safety performance and staffing

During the period of the report there has been:

- **One recordable injury**
 - **No nuclear reportable incidents**
 - **No environmental incidents**
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- **529** EDF staff this includes **14** Apprentices, **2** Industrial placements, **5** Technical Trainees, and **8** Visitor Centre staff.
 - **250** year round contracting partners

Sizewell B refuelling – Thermal Sleeve



Looking up under the Reactor Pressure Vessel Head – Note the missing Thermal Sleeve

Sizewell B refuelling – Thermal Sleeve

Thermal Sleeve had become detached and was located on the Upper Internals assembly inside the reactor vessel



Sizewell B refuelling – Thermal Sleeve

- Thermal Sleeve detachment had no direct impact on nuclear safety or safe operation of the reactor.
- There is international operating experience on this issue which informed our inspections
- We engaged our specialist suppliers and delivered a repair together and associated Safety Cases during an extended outage. We replaced a total of 15 Thermal sleeves as a precautionary measure.
- ONR were involved in the Review of the work throughout and were satisfied to provide start-up consent on completion of the repairs. All work was delivered safely and well within the radiological targets set.

Photograph showing the Thermal Sleeve replacement work completed

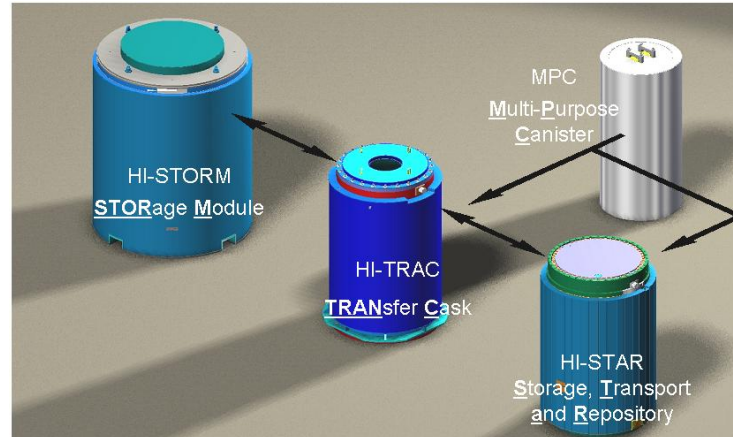
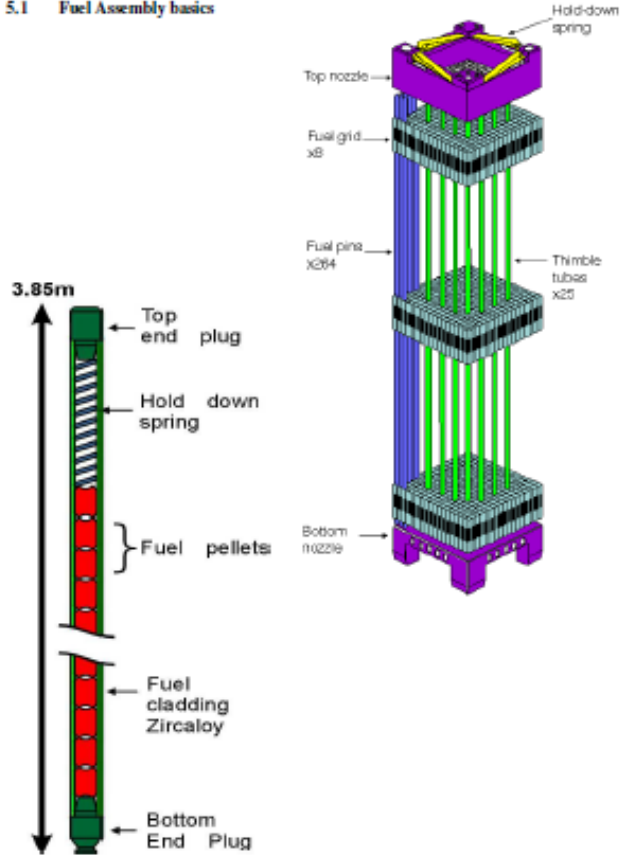


Dry Fuel Storage – 3rd Campaign

- During the final stage of processing one of the fuel storage casks as part of our 3rd campaign, we detected presence of fission products in the cask.
- This is detected through analysis of the Helium gas that is used to cool the fuel inside the cask and is part of the normal monitoring process.
- The level of activity is indicative of a single small pin-hole failure in one fuel pin.
- This is not an uncommon issue around the world.
- The cask and fuel are currently safely located inside the Fuel Building pending a decision on the best course of action. There is no increase in risk to personnel or public from this condition.
- We are now working through the options for processing the cask. This will involve developing Safety Cases to justify whether it is either best to transfer the cask to the Dry Store Building or remove the fuel and re-locate it back in the Fuel Storage Ponds.
- The cask will only be moved to the Dry Fuel Store if it meets stringent safety case requirements for storage.

Dry Fuel Storage – 3rd Campaign

5.1 Fuel Assembly basics



Sizewell B Relocated Facilities

- A planning application was submitted to East Suffolk Council in Nov 2020.
- This planning application did not require developing in Pill Box Field and utilised brown field land from Sizewell A.
- This revised application was approved by East Suffolk Council in February 2021.
- At present we are undertaking preliminary works and awaiting the discharge of planning conditions by East Suffolk Council.
- Initial Construction works are expected to commence in the spring 2022.

Power station beds to help Suffolk's most vulnerable this winter

- Access Community Trust (ACT), has welcomed the donation of 100 beds, sleeping bags and pillows from Sizewell B power station.
- To be used by ACT and other charities for the homeless that they work alongside.
- Sizewell B brought the bedding as part of our business continuity plans in response to the pandemic and fortunately not required.



Decision taken to move Dungeness B into defuelling operations

- EDF has decided to move Dungeness B nuclear power station in Kent into the defuelling phase with immediate effect.
- Since September 2018 the station has been in an extended outage managing a range of unique, significant and ongoing technical challenges.
- EDF has taken a decision not to restart the plant but to move it into the defuelling stage.
- The final generation of electricity in 2018 means the plant ran for 10 years longer than its original design life, and in line with expectations when it was acquired by EDF in 2009.



Zero-carbon electricity generation ends at Hunterston B

- Since the station came online in 1976 it has produced enough zero-carbon electricity to power every home in Scotland for nearly 31 years.
- Reactor 4 at the EDF-run site was shut down at midday on 7 January 2022; 45 years, and 11 months after the station started producing electricity.
- The station's other unit, Reactor 3, was taken off line in November 2021.
- Both reactors will now undergo a statutory outage to make sure they are ready for defueling.
- It is expected that defueling at Hunterston B will take around three years.



Thank You

