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Spent Fuel Management and Disposal

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Environment Agency – GDA Process and Information Document:

1.4 “...A proposed **waste and spent fuel strategy** based on the expected waste generation and management practices throughout the facility lifecycle....”

Environment Agency - Process and Information Document:

2.4 “A description of **how spent fuel will be managed** and the quantities that will arise throughout the facility’s lifecycle.

This should include:

- new fuel composition and characteristics;
- expected fuel burn up and ratings;
- short and long term management proposals including any for off site management or disposal...”



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HSE – GDA Guidance Document

41 “HSE will take a holistic approach to assessing proposals for new build. Therefore the safety submission should cover all through-life aspects including design, construction, maintenance, operation, spent fuel and radioactive waste management and decommissioning. The depth of the information required may vary according to the significance of each issue to the design acceptance.”



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HSE – GDA Guidance Document

42 “Requesting parties should identify the management arrangements for the spent fuel and radioactive waste arisings from operation of the reactors for their projected life. This should include:

- the strategies for decommissioning, and management of spent fuel, all radioactive wastes and substances that might become wastes;
- the safe storage of radioactive wastes pending disposal;

GDA – Guidance:

“If the management options include direct disposal, the requesting party should obtain, and provide, a view from the Nuclear Decommissioning Authority (NDA) (as the UK authoritative source in providing such advice) on the disposability of the spent fuel.”



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Our objectives:

- Full plant lifecycle approach;
- Avoid orphan wastes;
- Optimisation from the start.



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Requesting party proposals:

Areva/EDF:

- 10 year at reactor pond storage;
- Followed by (options):
 - on site interim storage;
 - shared between sites interim storage;
 - shared between utilities interim storage;
 - contractor interim storage;
- Interim storage options include wet or dry facilities.



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Requesting party proposals:

Westinghouse:

- 18 year at reactor pond storage;
- On site interim storage using HOLTECH HI-STORM 100U system.

Progress & Next Steps:

- RPs have requested disposability assessments from RWMD;
- We expect RPs to review these assessments and provide them to us;
- We will scrutinise the assessments and reviews;
- Guidance is being prepared on spent fuel management;
- Repository design assessment Science Report in preparation.