

## **WG3 – New Waste Type in collaboration with SNETP**

**Expected changes in waste forms may have implications for geological disposal and needed R&D.** The changes expected in waste forms that will need to be disposed of in geological repositories are of primary concern for WMOs.

Indeed, the confirmation that this waste will be compatible with the current engineered barrier systems and host rocks may require intensive and decade long R&D. In line with its vision, the issue for IGD-TP concerns primarily changes expected **in the coming two decades** (e.g. higher burnups, change of cladding materials, use of fuel form other than UO<sub>2</sub>, increased separation and recycling, change in the reprocessing end-product, GenIII reactors...). This includes also the primary and secondary waste that will be generated **from the R&D facilities dealing with GEN IV and other facilities...**

Rapporteurs : Dominique Warin SNETP / CEA

Lena Zetterström Evins IGDTP / SKB

## **WG3 – New Waste Type in collaboration with SNETP**

### **Presentations and speakers:**

- 1- Importance of the waste form from a safety assessment perspective: The SR-Site experience (**L. Zetterström Evins, SKB**)
- 2- Results of R&D on future fuel cycle and associated HL waste disposal: the French case (**D. Warin, CEA**)
- 3- CarboSOLUTIONS: Implementing irradiated-graphite management (**G. Laurent, EDF and W. von Lensa, FZJ**)
- 4- EDF pilot plant and a project for the graphite treatment (**G. Laurent, EDF**)
- 5- Advanced wasteforms for future nuclear fuel cycles (**N. Hyatt, Sheffield U.**)
- 6- RED IMPACT (**W. von Lensa, FZJ**)
- 7- Management of current and future radwaste for deep geological repository : French approach and articulation with R&D (**F. Plas, ANDRA**)
- 8- Long term behavior of waste forms from Gen IV Reactors towards Geological Disposal (**G. De Angelis, A. Dodaro , M. Sepielli, ENEA**)