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Decommissioning of the Danish 5 MW research reactor DR2

by

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Reactor DR 2 at Risø National Laboratory was shut down in 1975, defueled and brought to a state of safe enclosure, awaiting the decommissioning of other facilities at the site. Final dismantling and demolition of the reactor took place in 2006-08 as the second decommissioning project at the site. After the final shut down of the reactor in 1975 the fuel was removed and shipped to the USA, part of the cooling circuit was dismantled and the reactor block was stripped from experiments and all loose parts were removed from the reactor tank. At the outset of the dismantling the reactor had experienced more than 30 years of decay time; but it still contained components and structures with a substantial activity. The paper will report on the dismantling and demolition process and highlight some of the experience gained during this project, for instance with a view to the selection of dismantling methods and methods for the separation of radioactive waste from material to be cleared.