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Polish Regulatory Authority experience from INSARR mission for the Maria research reactor

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The National Atomic Energy Agency (PAA) in Poland undergone the IAEA Integrated Safety Assessment of Research Reactors (INSARR) mission dedicated for the Maria research reactor during the period from 31 March to 4 April 2014.

Maria reactor is located in the city of Swierk, 30 km from the city of Warsaw. It is a tank-in-pool, multipurpose, cooled and moderated by light water and beryllium with graphite reflectors, with a maximum power of 30 MW. Currently, the reactor is normally operating at a power level between 18 and 23 MW. The reactor has been designed and manufactured by the Polish Industry and went critical for the first time in 1974. The reactor is currently operated with fuel elements with enrichment of 19,75%. The programme of core fuel conversion to low enriched uranium was completed in September 2014. The reactor is expected to play an important role in the development of the national safety and technical infrastructures for embarking on a nuclear power programme.

The Regulatory Authority demonstrates the current status of the implementation of the INSARR guidance and its assessment from the mission. Majority of the work will include lessons-learned realization during the License Renewal Process for Maria RR, and evaluation of the Safety Analysis Report in 2015.

Organization

National Atomic Energy Agency

Country

Poland

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