

Annex 2

GENERAL DESCRIPTION OF THE R3D.02 PROJECT

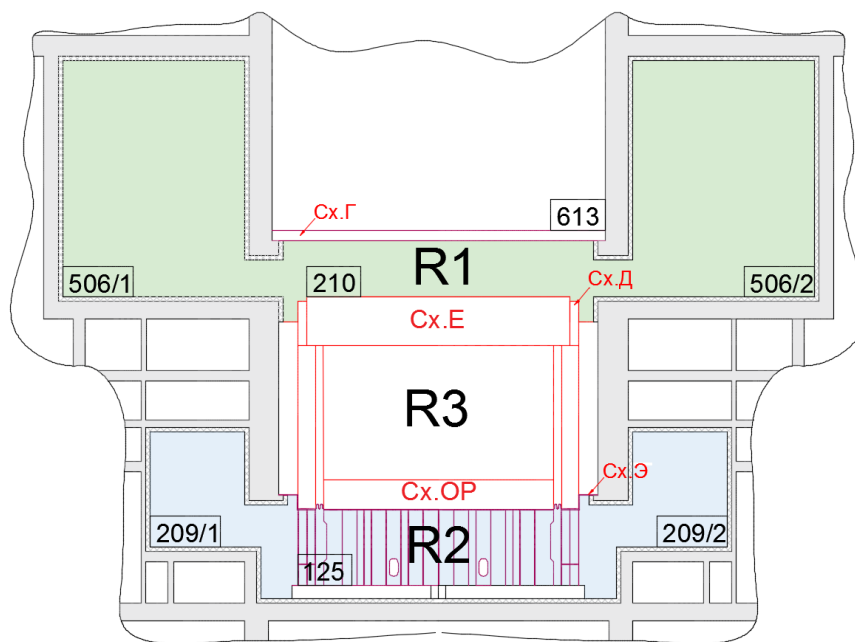
Ignalina Nuclear Power Plant is in Lithuania and comprises two RBMK-1500 reactor units. Unit 1 was shut down on 31 December 2004, followed by Unit 2 on 31 December 2009.



Both Units are the same and are manufactured of very similar materials, but Unit 2 is more contaminated than Unit 1.

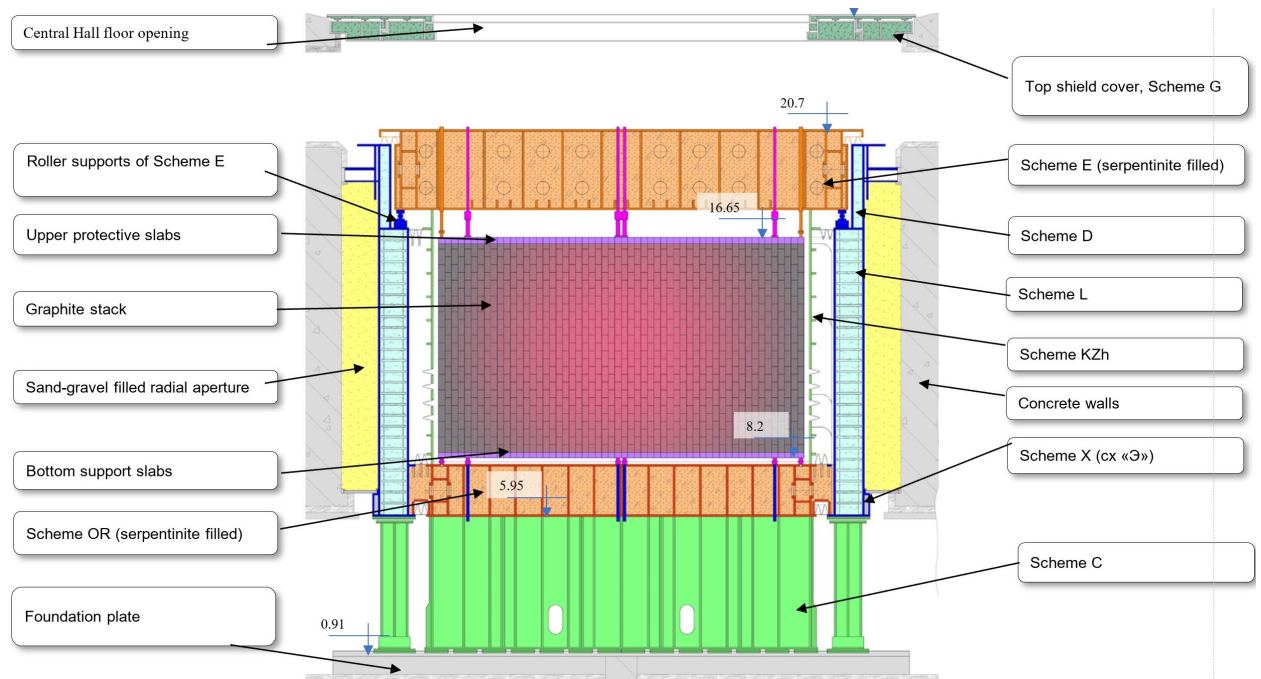
Dismantling of the reactors of INPP is the most challenging activity in the whole INPP decommissioning project pipeline. This especially concerns the dismantling of the reactor cores since it is a pioneering activity.

INPP has divided the reactor dismantling activity into three zones R1, R2 and R3:

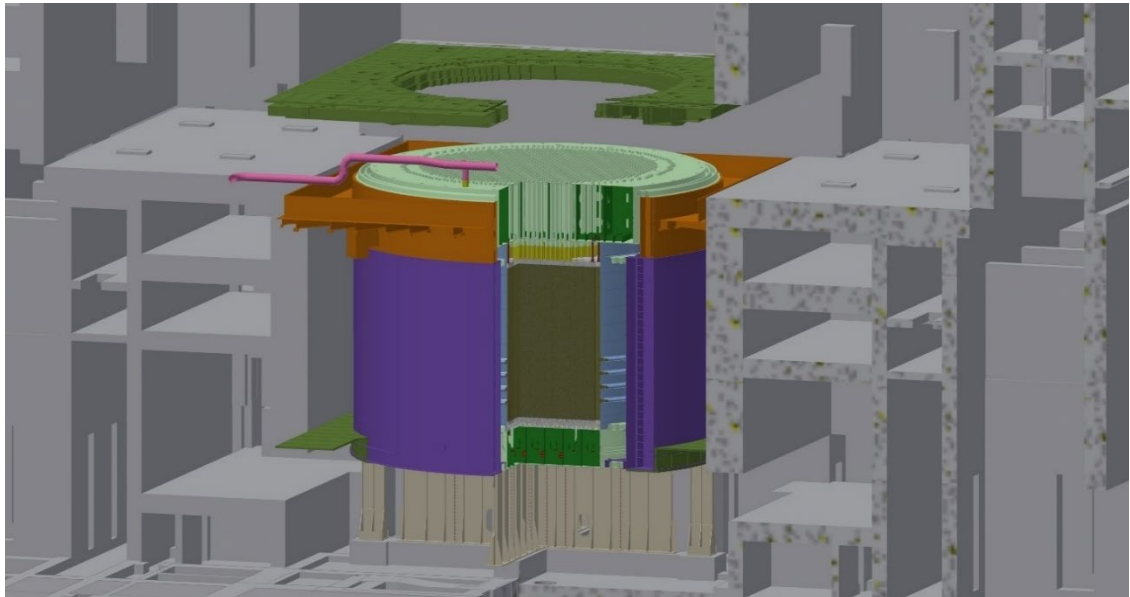


Zone R1 comprises the upper equipment and structures of the main circulation circuit; zone R2 comprises the lower structures and equipment of the main circulation circuit; and zone R3 comprises the reactor core and related structures. Dismantling in zones R1 and R2 is carried out by INPP staff and will be completed before dismantling begins in zone R3.

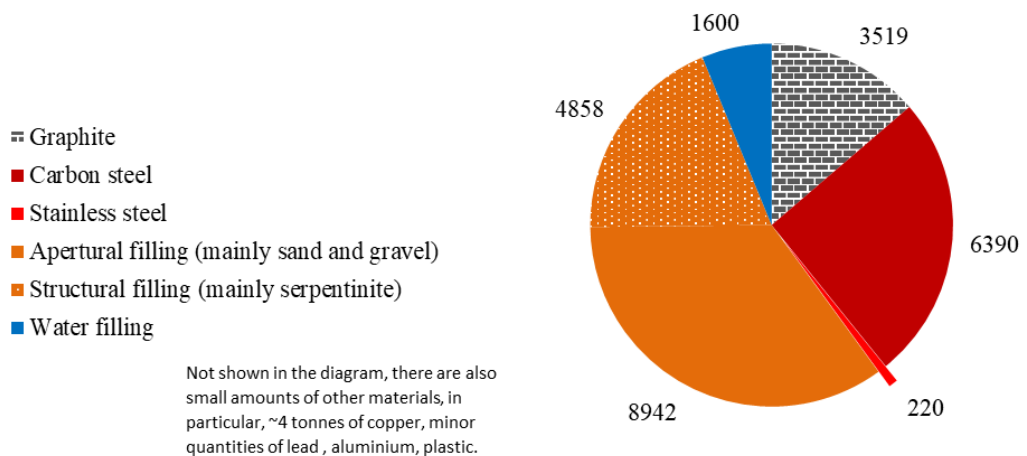
Zone R3 includes metal structures of the reactor located only in the reactor vault, the graphite stack and filling materials. The arrangement of the main components of the reactor included in zone R3 is presented below:



The zone R3 structures are shown in colour:



The primary inventory of materials of zone R3 of both Units is shown below:



The primary inventory of materials of zone R3 of both Units are very similar - the masses of the materials are the same except for the mass of apertural filling (Unit 2 has a higher mass). The estimated masses of materials in zones R3 to be removed and processed will be about 25 532 tonnes.

INPP has acquired two conceptual designs for the dismantling of the zone R3 at stage R3D.01. These designs, along with the necessary technical documentation, will be made available to tender participants. Participants will be free to review the existing designs and submit a technical proposal based on one of them, a combination of them, or their own solution.

INPP anticipates that the contractor will:

- Develop all the necessary design and technical documentation for zone R3 dismantling and resulting waste management (including the relevant licensing documentation in accordance with Lithuanian legislation).
- Supply the plant, equipment and labour resources necessary for R3 zone dismantling and resulting waste management.
- Execute activities associated with R3 zone dismantling (the INPP staff will mainly be responsible for waste management).

The target schedule is for the design and technical documentation for the zone R3 dismantling and resulting waste management to be agreed with the nuclear regulator, VATESI, in 2030, with the dismantling of both units to be completed in 2042.

Waste management resulting from dismantling must be planned through to placement in the relevant disposal or storage facility:

