

Experimental Pilot with multiple purpose at ICIT Rm. Valcea Romania

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National Research and Development Institute for Cryogenics and Isotopic Technologies (ICIT Rm. Valcea) was established in 1970 as a research focused Industrial Pilot Plant with main goal the development of a heavy water production technology.

Within ICIT there is an experimental pilot plant for tritium and deuterium separation, which has as main purpose the elaboration of tritium separation technique from heavy water used in moderator of CANDU nuclear reactors and to certify the equipments specific for cryogenic domain and tritiated mediums.

This work is focused on the presentation of ICIT research activities and perspectives related to water detritiation technologies and also to the development of research on issues in the field of nuclear fusion.