



JNPP Report - BPTC

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Jordan - JAEC



Project status

- Russia was selected in October 2013 as the preferred bidder to supply Jordan with its first nuclear power plant.
- Russia and Jordan have signed an intergovernmental agreement on cooperation in the construction and operation of the first nuclear power plant in Jordan.
- The construction agreement is to be concluded in 2016.
- the initial reactor of the two-unit plant is expected to start operating in 2020.

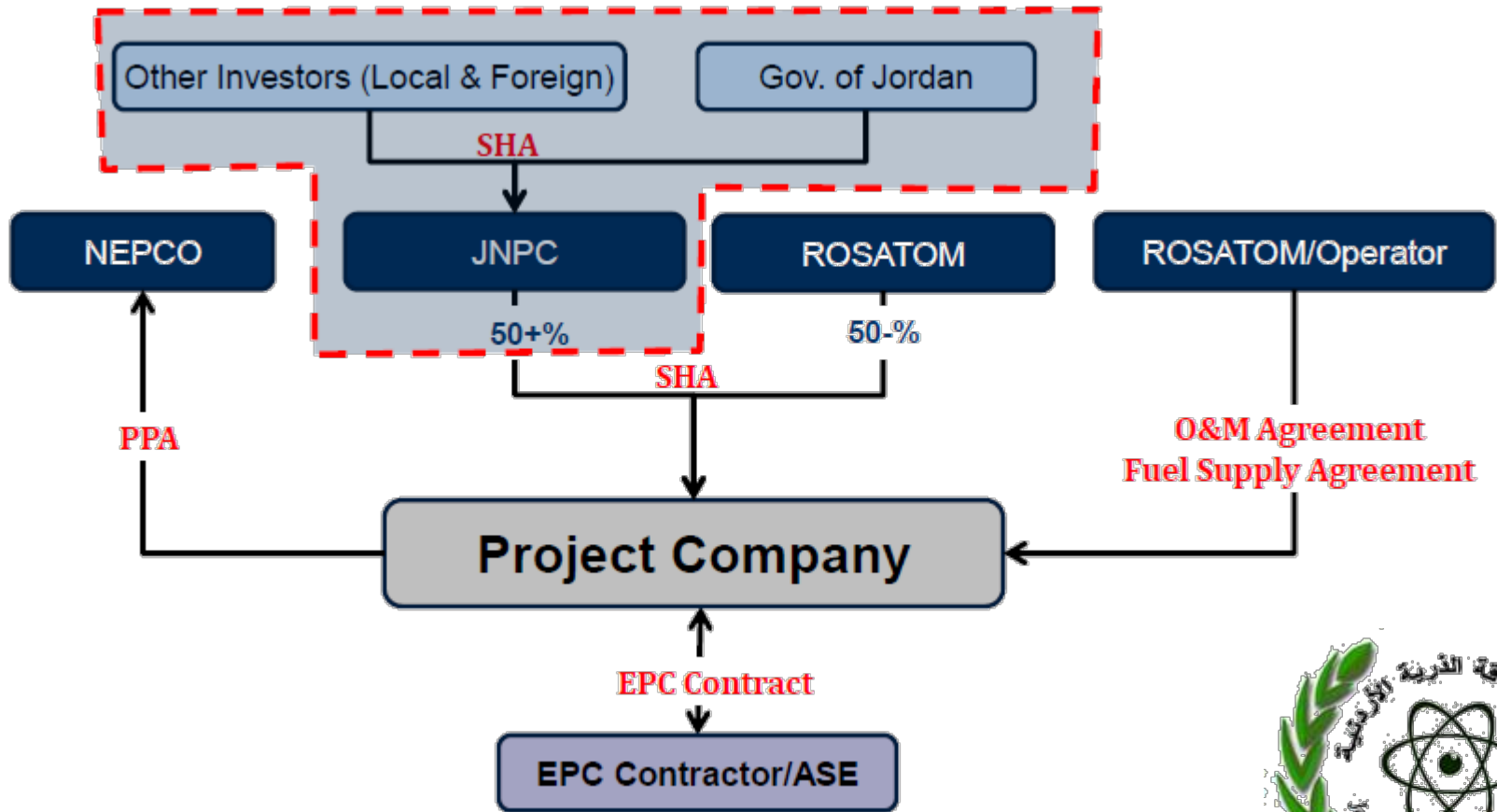


Project status

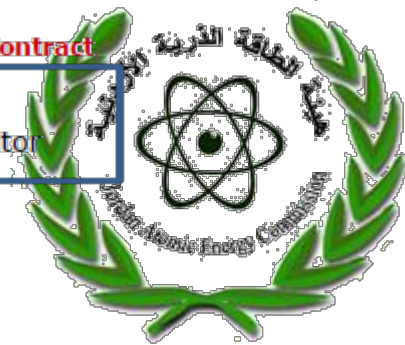
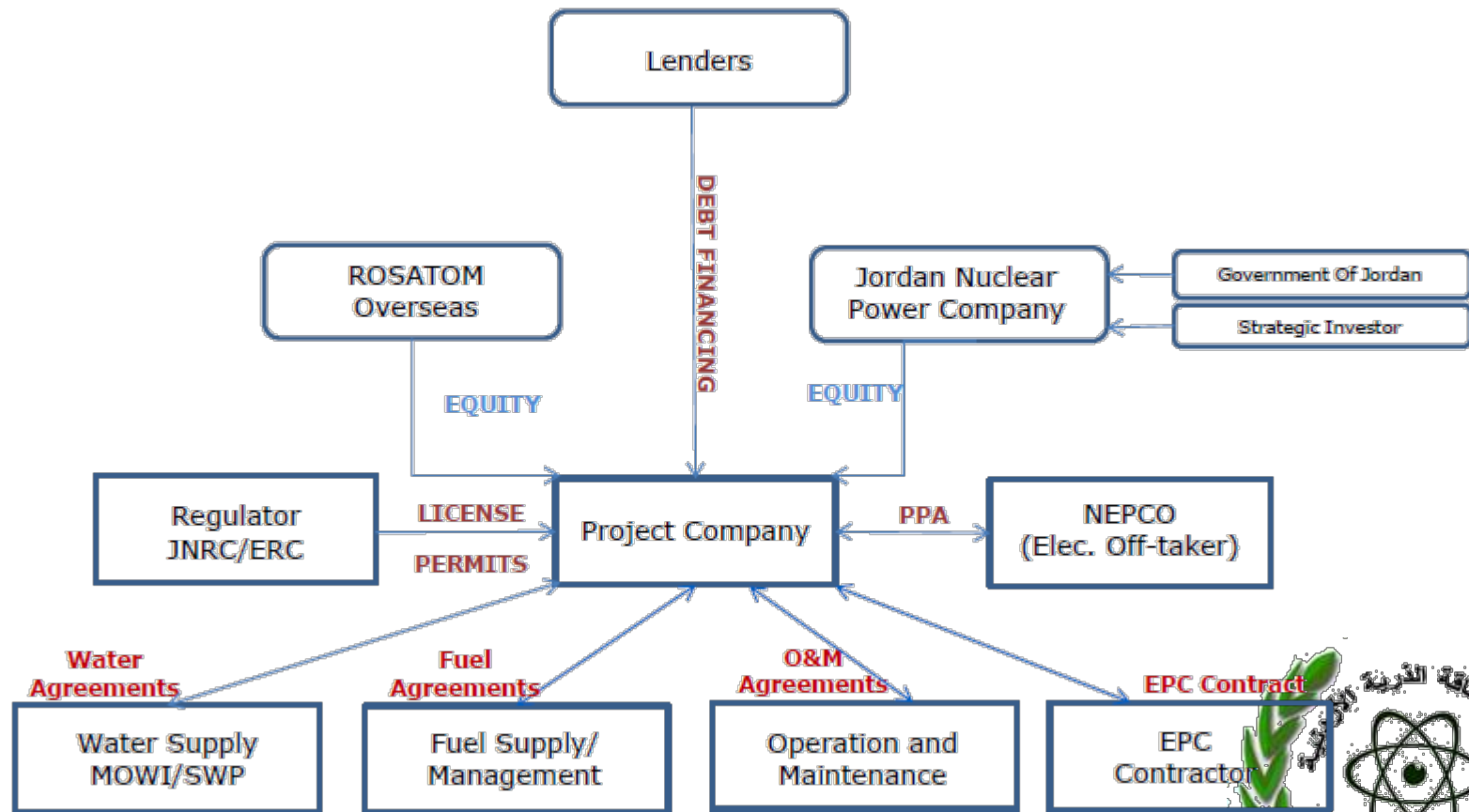
- The site suitability evaluation process has already started.
- Once the feasibility report has been completed, a plan for water supply will be decided.
- Rosatom will supply nuclear fuel for the reactors and take back their used fuel.
- Russia will contribute 49% of the project's cost, with the Jordanian government providing the remaining 51%.



Contractual Structure



JNPP Project Stakeholder Structure

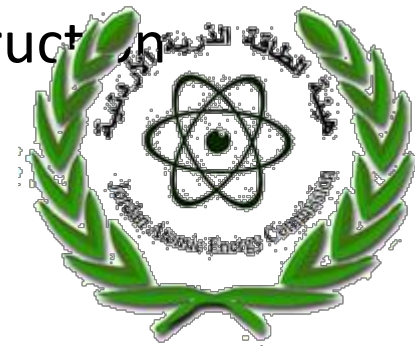


Project Phases

Phase I: Pre-Investment Phase (Development Phase)

- Conducting the required Site Characterization, Environmental Impact Assessment, Grid Study, Electricity Market Study, Offsite Infrastructure and Water & Cooling Study for the Site/Project.
- Preparing and finalizing the Bankable Feasibility Study with the Investor/Operator and Investors for the project along with other all required studies.
- Securing the Financing for the project and Finalizing all Phase II related Project Agreements.

Phase II: Investment Phase (Implementation & Construction Phase).

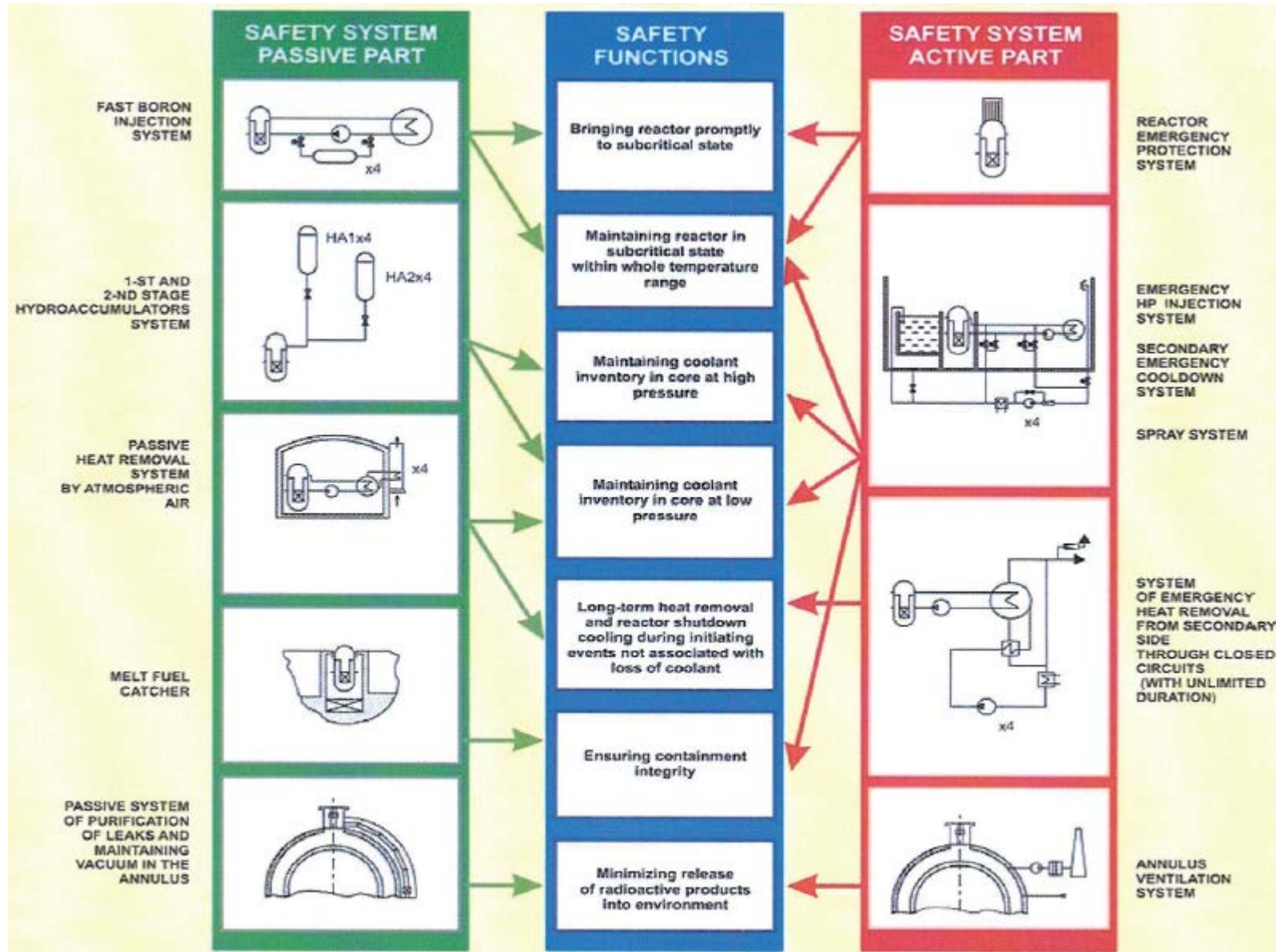


Agreements/Contracts to be concluded to move to Phase

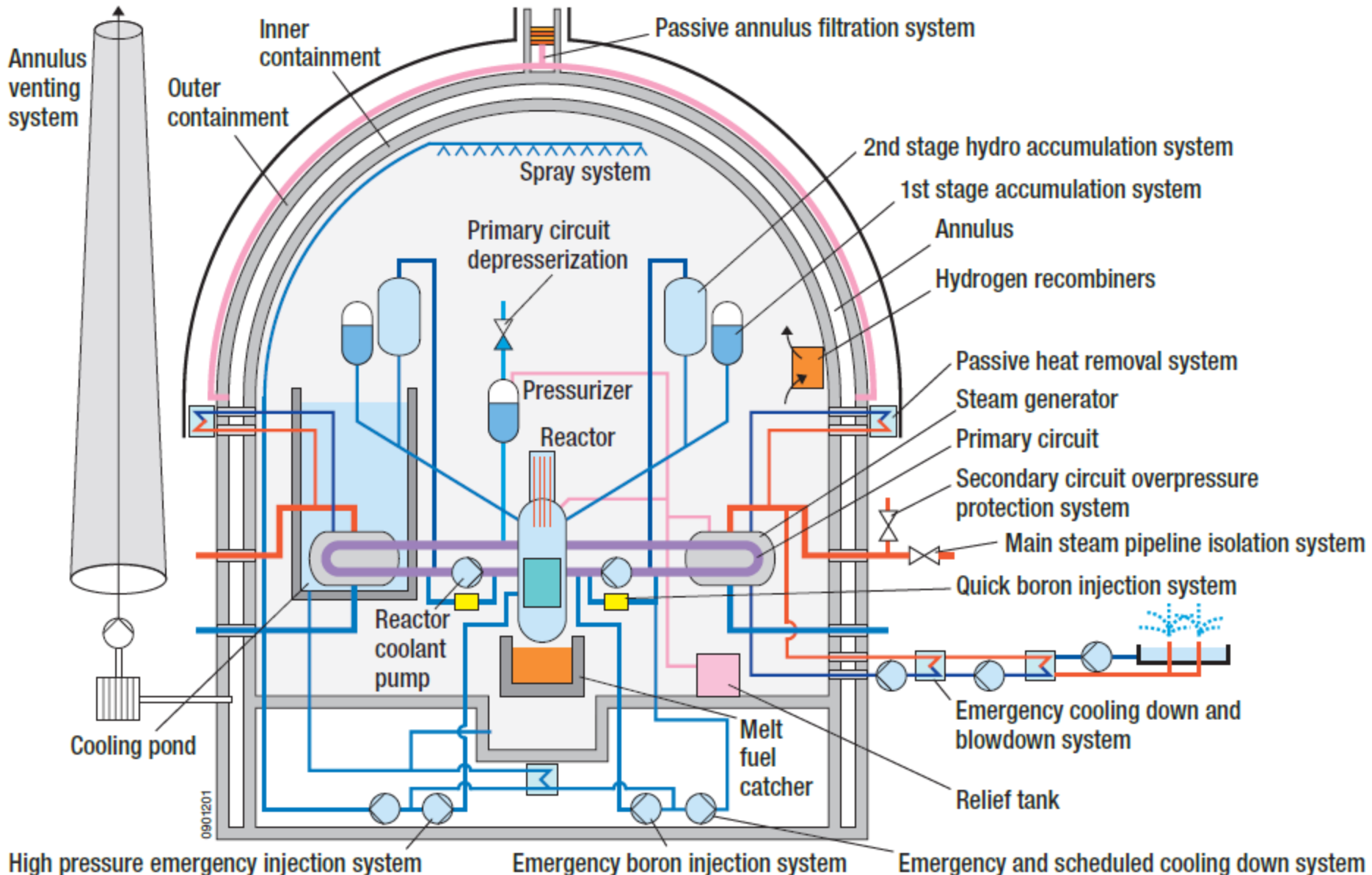
- EPC Contract.
- Power Purchase Agreement.
- Water Supply Agreement.
- Fuel Supply Agreement.
- Shareholder's Agreement.
- Share Purchase Agreement.
- Spent Fuel Terms Sheet and Operation and Maintenance Terms sheet.



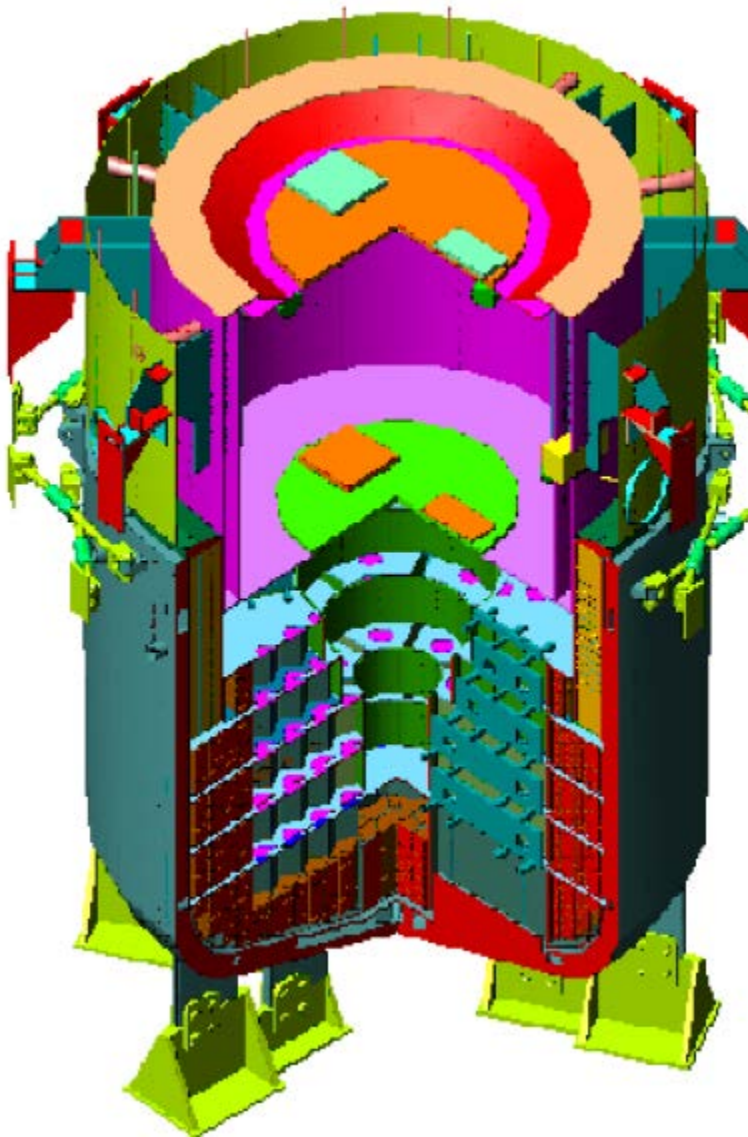
Safety systems



Safety systems



The core catcher



- The core catcher design provides corium confinement and exclude corium discharge outside the containment in any scenario.
- Protects the reactor cavity against thermal and mechanical impact of corium.
- Takes in and accommodates solid and liquid corium constituents.
- -Ensures formation of optimal structure and properties of the melt pool and subsequent solidification of corium.
- Provides heat sink from corium to cooling water passiv ely supplied min 24 h without any coolant makeup.



Water supply

- Water from As Samra Wastewater Treatment Plant will be used for cooling in JNPP .
- As Samra WWTP the only sustainable water source capable to meet cooling water needs for a twin unit Nuclear Power Plant.
- As Samra WWTP is located northwest 30 km from Amman and is designed to treat the wastewater of 2.2 million inhabitants of Amman and surrounding areas.



Thank you

