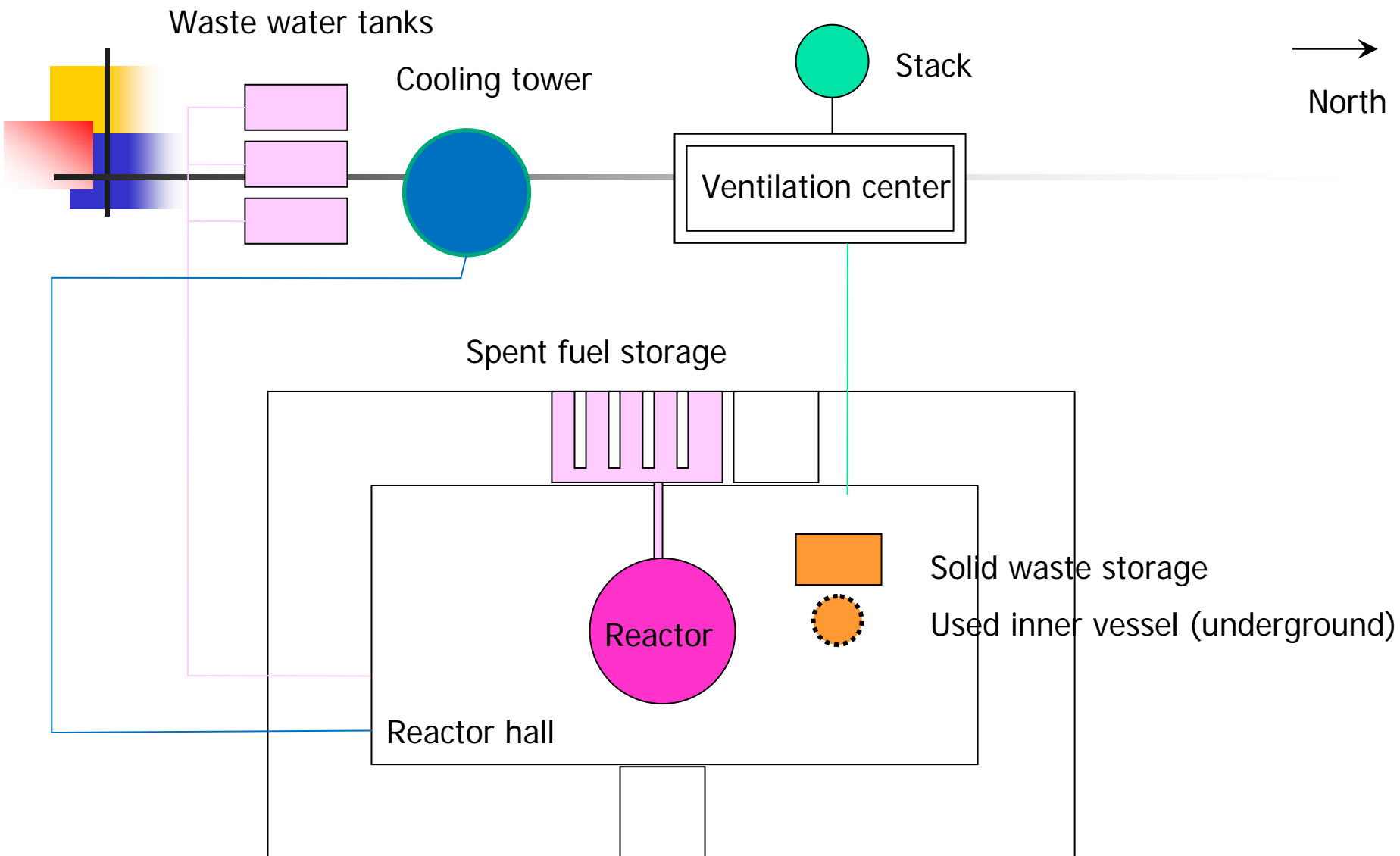


Annual Forum for Regulators and Operators in the Field of Decommissioning:
International Decommissioning Network (IDN) Activities and
Outcomes of the International Peer Review of Decommissioning
Vienna, Austria, from 3 to 7 November 2008

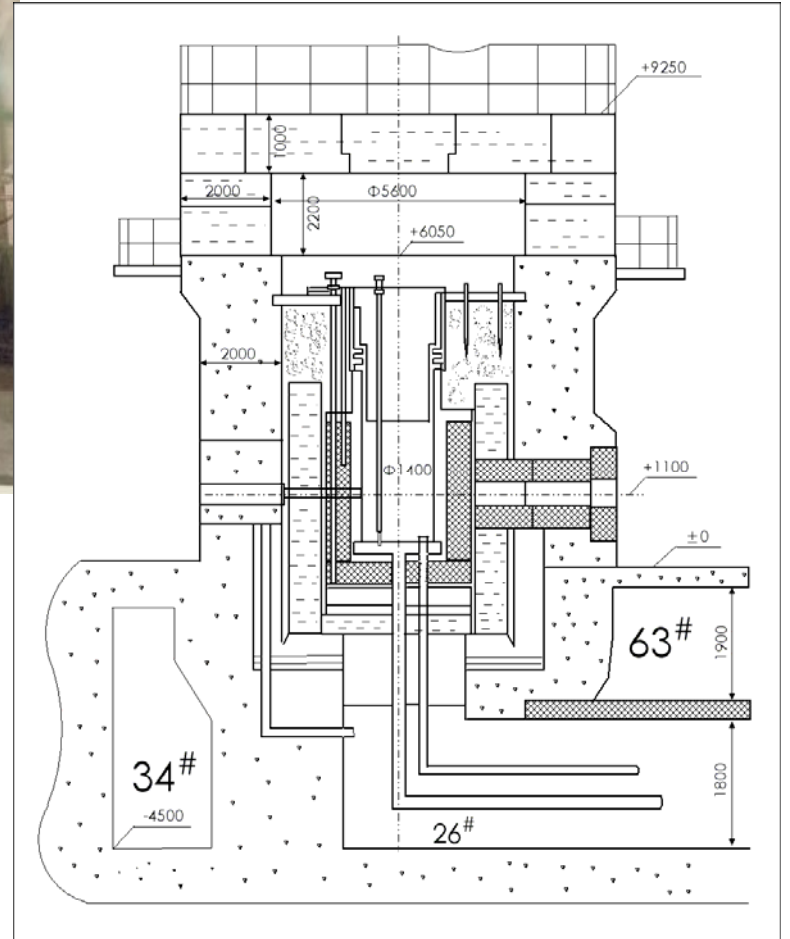


Progress of HWRR Decommissioning

Yidong ZHOU
China Institute of Atomic Energy (CIAE)



2008-11-13 Fig.1 Schematic of HWRR Site





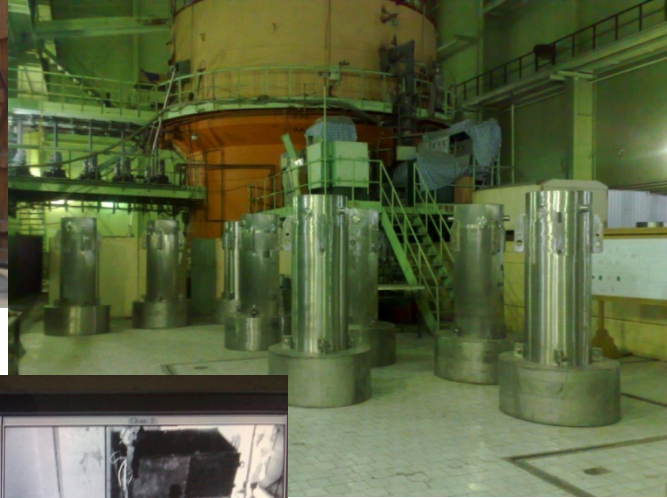
Progress

- HWRR was permanently shut down at the end of 2007.
- In September 2007, a proposal for **spent fuel transport** project (including HWRR and another reactor SPR at CIAE) with fund of **US\$5,000,000** was approved.
- In September 2008, a proposal for **transition phase** project with fund of **US\$3,000,000** was approved.
- In 2008, **a long term plan** for decommissioning and radwaste treatment is being developed after Wenchuan earthquake, including HWRR decommissioning project.



Progress, cont'd

- In **October 2008**, the first spent fuel transport was completed.
 - **HWRR:108** spent fuel assemblies in 9 containers were transported.
 - **SPR: 48** spent fuel assemblies in 6 containers were transported.
 - Destination: reprocessing plant in Northwest China



2000-11-15



Progress, cont'd

Ungoing

- Reactor cooling and heavy water purification
- Operation and maintenance
- Personnel training
- Clean-up operation radwaste



Progress, cont'd

We have and will cooperate with IAEA and other countries in the field of nuclear facilities decommissioning.

- IAEA TC project CPR9034 was successfully implemented
- Participation in R2D2P in the Philippines
- Participation in DeSa/FaSa
- Participation in IDN
- SCK/CEN – CNNC Cooperation Agreement was signed
- Applying for new IAEA TC project for cycle 2009-2011
- Offer of HWRR as another demonstration facility for R2D2P



Decommissioning Planning

- Transition Period (2009-2011)
- Implementation Period I (2012-2015),
Dismantlement of peripheral systems and equipment
- Implementation Period II (2016-2020),
Dismantlement of reactor, hot cells, waste water tanks
and ventilation, and site restoration



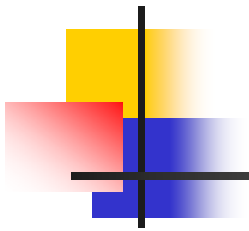
Transition Period (2009-2011)

- Reactor defuelling
- Drainage of heavy water
- Transport of spent fuel
- Modification of service facilities (e.g., ventilation, radiation protection, workshop)
- Initial characterization survey
- Research projects on key technology
- Procurement of equipment
- Development and approval of decommissioning plan, and
- Issuance of decommissioning license



Needs

- Decommissioning technology, including
 - Dismantling and conditioning technology of graphite;
 - Treatment of tritiated water; and
 - Reuse/recycling technology.
- Decommissioning project management;
- Environmental impact assessment and monitoring;
- Specific equipment;
- Regulation and standard system; and
- Personnel training



Thank you for your attention