

Research Reactor Decommissioning in China

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Introduction

- Chinese government has been attaching importance to nuclear facilities decommissioning.
- The regulatory organizations, legislation and safety management system had been introduced at other R2D2 workshop. So only the currently considering about RR decommissioning is introduced in this report.
- The status of HWRR decommissioning at present.

The considering about RR decommissioning

Mainly in the document drawing up

- The regulation for the cost estimated of the nuclear facilities decommissioning.
- The format and content of safety analysis report about RR decommissioning.
- The standards review plan about RR decommissioning.

Status of HWRR decommissioning

Heavy Water Research Reactor (HWRR) (10 MW multi-purpose reactor) was constructed and put in operation in 1958 at China Institute of Atomic Energy in the suburbs of Beijing.

It was the first nuclear reactor in China. Since long operating history and aged equipment, it was permanently shut down by the end of 2007.

The decommissioning strategy and the status have been introduced in other R2D2 workshop. The following is the new progress.

1. the operation radwaste management

1.1 the operation radwaste is being removed from main building.

1.2 Five room was reconstructed as interim storage.

2. radiological survey

1.1 drawing up the survey scheme.

1.2 designed sampling tools.

1.3 finished about 80% of survey task.

3. rehabilitated radiation monitoring system

Finished project design

purchase instrument

installation

4. reconstructing the ventilation system

Finished project design

Purchased four ventilator

Being installed

5. rehabilitation of the purifying system and water level monitoring system in spent fuel pond

Finished project design , instrument purchased, installed of the water level monitoring system.

Finished project design, device purchase, installed of the purifying system.

Commissioning the purifying system.

6. rehabilitation of the sanitary passageway

Finished project design and implement.

Installed the radiation monitoring device.

7. rehabilitation of the heating system

Finished project design, device purchased.

Installed the heating system.

8. Nuclear fuel removal

In 2008, the nuclear fuel was removed from reactor core.

9. emptied heavy water from system and tank.

10. document

Start to prepare

- decommissioning plan,
- quality assurance outline,
- safety analysis report,
- environment impact report document.

**Thank You
Very Much!**