



Technical Meeting on the Safety of High Temperature Gas Cooled Reactors in the Light of the Fukushima Daiichi Accident

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Contents

- Background to meeting
- Purpose of meeting
- Status of CRP on Modular HTGR Safety Design

- Self introduction
- Agenda acceptance



Background

(1/3)

- Fukushima Daiichi - March 2011
 - Safety of nuclear installations once again under scrutiny
 - Developers of technologies have an added responsibility to demonstrate that whatever nuclear reactor design they propose will be able to cope with challenges of the type that were encountered at the Fukushima Daiichi nuclear power plant



Background

(2/3)

- Modular HTGRs
 - The intrinsic properties of modular high temperature gas cooled reactors (HTGRs) minimize and, in many cases, eliminate concerns over off-site and on-site power
 - Typically no need for active safety systems or operator actions to avoid large radionuclide releases
 - Need to consider multi-reactor plant sites
 - BUT, the reactor designer must still assure a safe design.



Background

(3/3)

- Safety Design of Modular HTGRs
 - The development and implementation of comprehensive safety design criteria that take HTGR-specific characteristics into account would provide a high level of assurance that modular HTGRs are consistently designed, constructed, and operated in a manner that takes advantage of these intrinsic properties, while also avoiding unintended compromises in plant safety.



Purpose of meeting

- (1) report on HTGR design features that enable this reactor type to meet the challenges highlighted by the Fukushima Daiichi nuclear accident as well as on related HTGR safety research; and
- (2) further discuss the scope of the coordinated research project (CRP) on HTGR safety design,
- CRP will contribute towards the overall efforts for the implementation of the IAEA Action Plan on Nuclear Safety.



Status of CRP

- A new Coordinated Research Project (CRP), to investigate and make proposals on modular High Temperature Reactor Safety (HTGR) design criteria, was approved in December 2013.
- The CRP is announced online (search for CRP Code I31026)
<http://cra.iaea.org/cra/explore-crps/all-opened-for-proposals.html>
- Proposal forms are available online.
- Member states interested in participating in the CRP could draft proposals
- Session on Thursday to give specific information



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A blue flag with the IAEA logo (a white atomic symbol surrounded by a laurel wreath) is flying in front of a modern glass skyscraper. The building's windows are reflecting the sky and some are lit up.

Thank you!

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