

HTGR Technology Working Group

HTGR TWG Members

BWXT

Framatome (previous AREVA)

Kairos Power

StarCore Nuclear

X-Energy

DOE, Duke Energy, EPRI and NEI

Farshid Shahrokhi (Chairman HTGR-TWG)

HTGR- TWG

Developers

- Reactor Developers
 - Framatome
 - SC-HTGR - prismatic core modular high temperature gas-cooled reactor
 - Star Core Nuclear
 - StarCore - small core modular high temperature gas-cooled reactor
 - X-Energy
 - Xe-100 - pebble bed core modular high temperature gas cooled reactor
 - Kairos Power
 - KP-FHR - molten salt core high temperature reactor
- Fuel Manufacturers
 - BWXT
 - UCO based TRISO coated particle fuel
 - X-Energy
 - UCO based TRISO coated particle fuel

framatome

Xenergy

BWXT
BWX Technologies, Inc.

HTGR –TWG

Activities

- Regulatory Guide 1.232 “Guidance for Developing Principal Design Criteria for Non-Light Water Reactors”
- Radionuclides retention - Functional Containment
- Limited Scope Topical Report (LSTR) for TRISO coated particle fuel -
 - Complete the report
 - Submit to the NRC
 - Begin NRC review/comment
- ASME Section III, Div. 5
 - Advocacy for NRC review and endorsement
 - Technical support of the NRC review and comments resolution
- Engage in efforts to reduce licensing uncertainties for advanced reactors
 - Advocacy for NRC endorsement of Licensing Modernization Project proposal and approach
 - Support for development of technology-inclusive license application content guide for advanced non-LWRs