



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Nuclear Graphite Workshop

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Welcome

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Nuclear Graphite Workshop

- Welcome
- The NRC/RES Mission
- Graphite Reactor Experience
- Workshop Objectives

The NRC Mission

- License and regulate the Nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of **public health** and **safety**, promote the common defense and security, and protect the environment.

RES Mission

- Further the regulatory mission of the NRC by providing technical advice, technical tools and information for identifying and **resolving safety issues**, making regulatory decisions, and promulgating regulations and guidance. RES conducts **independent experiments** and analyses, develops technical bases for supporting realistic safety decisions by the agency, and prepares the agency for the future by **evaluating safety issues** involving current and new designs and technologies. RES develops its program with consideration of Commission direction and input from the program offices and other stakeholders.

Graphite Reactor Experience

- Peach Bottom Unit 1
- Fort St. Vrain
 - Stuck Control Rod
 - Moisture intrusion problems
 - Cracks in steam generator tubes

Workshop Objectives

- Learn about graphite research activities being conducted and planned around the world
- Consider this in addition to DOE plans for NGNP
- Compare these to the NRC PIRT
 - Identify areas where the NRC may conduct research



- Thank you for participating