

**Opening Remarks
and
Introduction**

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**HELIUM GAS COOLED REACTOR - OVER
40 YEARS OF DESIGN & DEVELOPMENT**

- 1959 Contracts for Peach Bottom 1 signed
- 1967 Peach Bottom 1 on line
- 1976 Fort St. Vrain on line
- 1971-1974 Ten HTGR commercial contracts
- 1984 Modular HTGR program begins
- 1985 350 MW(t) MHTGR steam cycle
- 1988 DOE selects MHTGR as one of two preferred NPR designs
- 1989 NPR design contract for MHTGR (cancelled 1993)
- 1990 450 MW(t) MHTGR STEAM CYCLE
- 1992 Pu consumption MHR study
- 1994 GT-MHR 600 MW(t) chosen as reference design

M-272(26)
8-27-01



***Expectations for GT-MHR
Pre-Application Interaction***

- Familiarize staff with technology
- Identify and resolve licensing issues as early as possible
- Candid dialogue between NRC staff and design team
- Opportunity to evaluate open mindedly alternative approaches to safety

Prepare way for commercialization of GT-MHR

