

# HTGR Technology Course for the Nuclear Regulatory Commission

May 24 – 27, 2010

Module 1 Introduction

# Course Objective

- **Provide general training course on High Temperature Gas-Cooled Reactor (HTGR) technology**
  - Background and applications
  - Basic safety concepts and licensing experience
  - Basics of nuclear design and thermal-hydraulic performance
  - Fuel, graphite, and other materials
  - Key design and performance features of selected major systems and components
  - Safety analyses and methods

# Course Objective

- **Emphasize modular HTGR design concepts being considered for Next Generation Nuclear Plant (NGNP)**
  - Prismatic HTGR
  - Pebble bed HTGR
- **Course is not an NGNP design review**
- **Objective is not to engage in detailed discussions on potential regulatory issues**
  - Will be addressed through topical white papers and associated NGNP Project/NRC interactions



**The views expressed in this HTGR  
technology course are those of the  
industry experts and do not  
necessarily reflect those of the NRC**