MONJU: Project & Design
History related to MONJU

• Feb.1968:Start of Design Work
• May.1985:Construction Start
• Apr.1994:Initial Criticality
• Oct.1995:Reached 40% rated Power
• Dec.1995:Sodium-leak Accident
• Dec.2002:Modification Permit Granted
• 2006:System Function Tests Started
Conditions Given

- Mixed Oxide Fuel
- 200 to 300 Mwe for Demo Reactor
- Sodium Coolant
- Assume to Attain Criticality FY1976
- 100 Mwt Exp. Reactor in FY1972
- Promote as National Project
- Promote International Cooperation
Factors Considered

- International cooperation & competition
- Characteristics of each country
- Relation with Joyo
- Design codes and standards
- National Project: Cooperation of Industry
- Requirement for commercial reactor
- Construction cost

Factors Considered (2)

- Unique features of MONJU
- Fuel & fuel cycle side
- R&D required: data, facilities, cost, schedules
- Extent of domestic technology
- Choice of reference design, alternative, backup design
- Tasks to leave for future
図7 炉壁冷却方式の概要