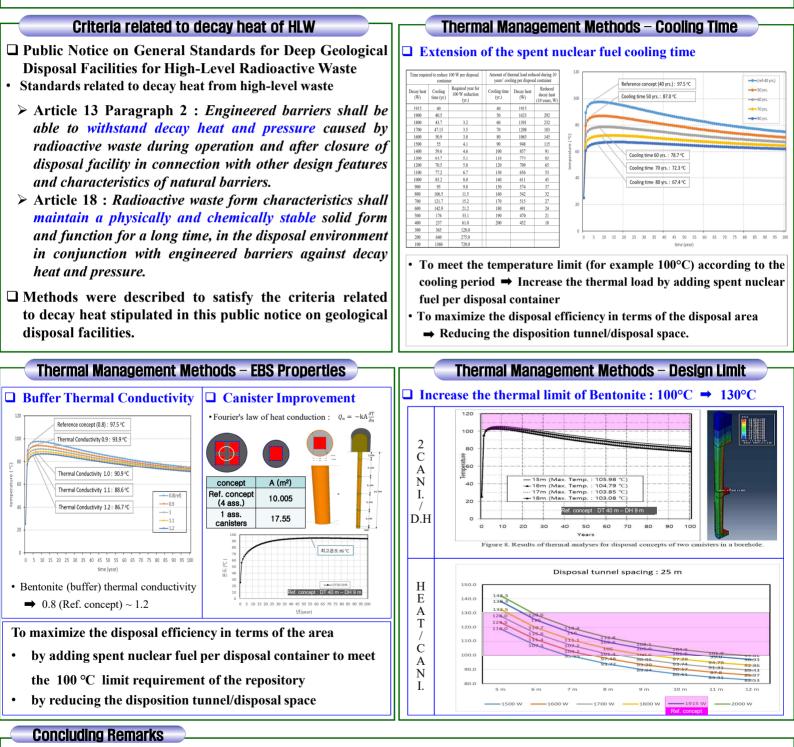
## Thermal Management Methods for High–efficiency Geological Disposal of High–level Radioactive Wastes

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## Introduction

- Deep geological disposal (DGD) system : widely accepted disposal method for long-term isolation
  designed and constructed with multiple barriers → completely isolated in a stable deep geological environment
- Important consideration : the heat generated from the high-level waste loaded in the disposal container
- Conceptual analyses : on the effect of heat in a HLW repository system and on the thermal management methods



- In this paper, thermal management technology in the deep geological repository for spent nuclear fuels to improve disposal efficiency in terms of disposal area is presented and analyzed.
- This result will be used to establish the high-efficiency geological disposal system with efficient thermal management method applicable in Korea.