



# EPRI Research on Concrete Harvesting

NRC Hybrid Workshop on Structural Materials: What Research for Beyond 80



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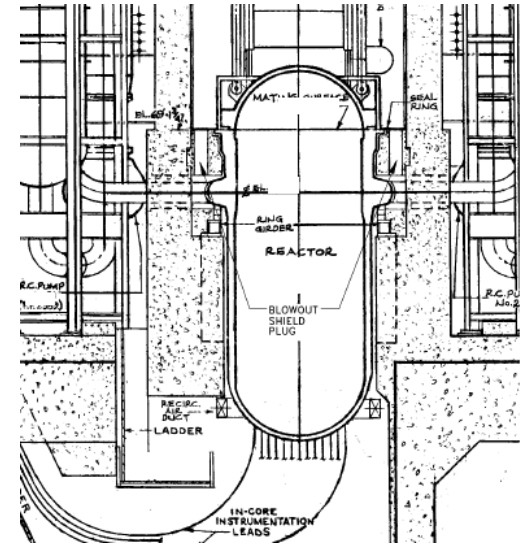
# Value of Harvesting

- EPRI concrete research is focused on ageing management, inspection, repair of structures, and developing industry guidance
- Harvesting is of great interest due to the material being exposed to operating conditions that may be different than conditions in a laboratory environment
- Opportunities to harvest concrete samples provide valuable information for developing guidelines for inspection, testing, and analysis
- The effects of irradiation in concrete is one of the points of interest that is specifically linked to the nuclear industry



# Harvesting of Irradiated Concrete

- EPRI has been involved in several attempts to harvest irradiated materials from decommissioned plants
- Harvesting irradiated concrete materials is top priority for harvesting efforts
- Challenges from previous efforts include:
  - International Politics
  - Legal / Contractual Issues
  - Logistical Issues on Site



# Opportunities and research

- There are some harvesting opportunities in the US and Europe and EPRI is interested in information exchange
- Interested in not only harvesting but access to facilities is also important for development and validation of NDE methods and characterization of materials in-situ
- In addition to irradiation of concrete other areas of harvesting interest include:
  - Deterioration of liners embedded in concrete
  - Chemical transport through concrete (chlorides, carbonation)
  - Leaching of calcium carbonate
- EPRI continues collaboration with utility members, national laboratories, and regulators in the area of harvesting and research related to harvested material.





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