





Possible Environmental Characteristics of a Micro-Reactor

- Occupies small land area
- Low usage of resources such as water or fuel
- Low level of emissions
- Smaller footprints could avoid sensitive lands such as wetlands and floodplains
- Smaller footprints could avoid areas with cultural, historic, or environmental justice significance
- More opportunities to use mitigation to reduce impacts
- Construction and operation phases would require fewer workers
- Simpler designs with limited interfaces with the environment



Possible Short-Term and Long-Term Approaches

Short Term

 Development of Interim Staff Guidance (ISG)



Long Term

- Generic Environmental Impact Statement (GEIS)
- New Regulatory Guides

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Environmental Resource Areas Addressed in ISG

- Land Use
- · Water Resources
- Terrestrial Ecology
- Aquatic Ecology
- Socioeconomics and Environmental Justice
- Historic and Cultural Resources
- · Need for Power and Alternatives
- Meteorology and Air Quality

- Nonradiological Health
- Radiological Health
- Postulated Accidents
- Severe Accident Mitigation Alternatives
- Fuel Cycle, Transportation of Fuel and Waste, and Continued Storage of Spent Fuel
- Cumulative Impacts

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