

ATTACHMENT B

Grand Gulf ESP EIS Inquiries

Response to Board Inquiry No. 1(2)

The Staff believes that the following issues have been resolved at the ESP stage. In general, issue resolution is based on specific assumptions that are detailed in the FEIS. The FEIS sections and pages noted in parentheses point to discussions of the environmental impacts and of the specific assumptions associated with resolution of the issues. These issues need not be addressed at the COL stage unless new and significant information is identified with respect to them.

Construction Impacts on Air Quality

- Impacts of construction activities on air quality (Section 4.2.1 at 4-6)
- Impacts of increased traffic during construction on air quality (Section 4.2.2 at 4-6)

Construction Impacts on Water

- Impacts of hydrological alterations resulting from construction activity (Section 4.3.1 at 4-8)

Construction Impacts on Ecology

- Loss of onsite habitat (Section 4.4.1.3 at 4-15)
- Impacts of onsite equipment staging and borrow areas on wildlife habitat (Section 4.4.1.3 at 4-15)
- Overall impacts of construction activities on aquatic ecological resources (Section 4.4.2 at 4-20)
- Impacts of construction at the Grand Gulf ESP site on terrestrial and aquatic Federally listed species (Section 4.4.3.3 at 4-28)

Construction Impacts on Socioeconomics

- Overall physical impacts (socioeconomic) of construction on workers and local public, buildings, roads, and aesthetics (Section 4.5.1.5 at 4-32)
- Impacts of construction on increases in population (Section 4.5.2 at 4-34)
- Impacts of construction on the regional economy (Section 4.5.3.3 at 4-36)

- Offsite impacts of construction on transportation (Section 4.5.4.1 at 4-38)
- Overall impacts of construction on recreation (Section 4.5.4.2 at 4-38)
- Impacts of construction workers on housing (Section 4.5.4.3 at 4-40, 4-41)
- Impacts of construction on the regional infrastructure and community services (Section 4.5.4.6 at 4-44)

Construction Impacts on Historic and Cultural Resources

- Impacts of construction activities on historic and cultural resources (Section 4.6 at 4-47)

Construction Impacts on Environmental Justice

- Impacts of plant construction on environmental justice (Section 4.7 at 4-51)

Construction Impacts on Nonradiological Health

- Nonradiological health impacts of construction on construction workers, workers at the GGNS Unit 1 facility and the local population (Section 4.8.3 at 4-53)

Construction Impacts on Radiological Health

- Impact of radiological exposures to site preparation and construction workers (Section 4.9.5 at 4-56)

Operational Impacts on Land-Use

- Land-use impacts in the vicinity of the ESP site due to operations (Section 5.1.1 at 5-3)
- Land-use impacts in the transmission line rights-of-way and offsite areas from ESP facility operations (Section 5.1.2 at 5-4)

Operational Impacts on Air Quality

- Impacts of cooling towers on air quality (Section 5.2.1 at 5-5)
- Impacts of atmospheric releases other than cooling system releases on air quality (Section 5.2.2 at 5-5)
- Impacts of transmission line operation on air quality (Section 5.2.3 at 5-6)

Operational Impacts on Water

- Impacts of hydrological alterations resulting from operation (Section 5.3.1 at 5-7)

Operational Impacts on Ecological Resources

- Terrestrial ecological impacts of operation of a new generation facility at the Grand Gulf ESP site including the associated heat-dissipation system, transmission lines, and right-of-way maintenance (Section 5.4.1.10 at 5-20)
- Impacts of operation on aquatic ecosystems (Section 5.4.2.6 at 5-25)
- Impacts of operation on terrestrial and aquatic Federally listed threatened and endangered species (Section 5.4.3.3 at 5-30)

Operational Impacts on Socioeconomics

- Physical impacts (socioeconomic) of operation (Section 5.5.1.5 at 5-33)
- Demographic impacts of operation (Section 5.5.2 at 5-35)
- Impact on the regional economy of operation (Section 5.5.3.3 at 5-37)
- Impacts on the regional infrastructure and community service (Section 5.5.4.6 at 5-41)
- Impacts of operational workforce on transportation (Section 5.5.4.6 at 5-41)
- Impacts of operation on aesthetics and recreation (Section 5.5.4.6 at 5-41)
- Impacts of operation on public services and infrastructure (Section 5.5.4.6 at 5-42)

Operational Impacts on Historic and Cultural Resources

- Impacts of operation on historic and cultural resources (Section 5.6 at 5-43)

Operational Impacts on Environmental Justice

- Offsite impacts on minority and low-income populations from operation (Section 5.7.1 at 5-45)
- Health impacts on minority and low-income populations from operation (Section 5.7.2 at 5-45)
- Socioeconomic impacts on environmental justice (Section 5.7.4 at 5-46)

Operational Impacts on Nonradiological Health

- Nonradiological health impacts except acute and chronic impacts of EMFs (Section 5.8.6 at 5-50)

Operational Impacts on Radiological Health

- Radiological impacts on members of the public from routine operational releases

(Section 5.9.3.3 at 5-58)

- Occupational doses to workers from operations (Section 5.9.4 at 5-59)
- Radiological impacts to biota from routine operation (Section 5.9.5.3 at 5-61)

Operational Impacts on Postulated Accidents

- Impacts of design basis accidents for advanced light water reactors (Section 5.10.1 at 5-67)
- Impacts of severe accidents for advanced light water reactors (Section 5.10.2 at 5-79)

Fuel Cycle, Transportation, and Decommissioning

- Impacts of the uranium fuel cycle for light water reactors (Section 6.1.1.9 at 6-15)
- Impacts of transportation of fuel and radioactive waste to and from advanced light water reactors (Section 6.2.4 at 6-41)

Cumulative Impacts of Construction and Operation on Air Quality

- Cumulative impacts of construction and operation of a new facility at the Grand Gulf ESP site on air quality (Section 7.2 at 7-2)

Cumulative Impacts of Construction and Operation on Water Use and Quality

- Cumulative impacts of surface water use (Section 7.3.1 at 7-3)

Cumulative Impacts of Operation on Terrestrial Resources

- Cumulative impacts of cooling tower operation on wildlife and wildlife habitat (Section 7.4 at 7-5)
- Cumulative impacts of transmission line operation and maintenance on wildlife and wildlife habitat (Section 7.4 at 7-5)
- Cumulative impacts of operation on terrestrial ecological resources (Section 7.4 at 7-6)

Cumulative Impacts of Construction and Operation on Aquatic Resources

- Contribution of construction to cumulative losses of aquatic organisms (Section 7.5 at 7-6)
- Contribution of construction, operation, and decommissioning to cumulative impacts on aquatic ecological resources (Section 7.5 at 7-8)

Cumulative Impacts of Construction and Operation on Socioeconomics, Historic and Cultural Resources, and Environmental Justice

- Cumulative socioeconomic impacts of construction and operation (Section 7.6 at 7-8)
- Cumulative impacts on historic and cultural resources (Section 7.6 at 7-9)
- Cumulative impacts on environmental justice (Section 7.6 at 7-9)

Cumulative Impacts of Construction and Operation on Nonradiological Health

- Cumulative impacts on nonradiological health (Section 7.7 at 7-10)

Cumulative Impacts of Construction and Operation on Radiological Health

- Cumulative radiological impacts of operation for light water reactors (Section 7.8 at 7-10)

Cumulative Impacts of Construction and Operation on Fuel Cycle, Transportation, and Decommissioning

- Cumulative fuel cycle impacts for light-water reactors (Section 7.9 at 7-11)
- Cumulative impacts of transportation of fuel and waste to and from the Grand Gulf site for light water reactors (Section 7.9 at 7-11)

Alternatives

- Evaluation of power generation alternatives (Section 8.2.5 at 8-24)
- Evaluation of alternative sites (Section 9.2.1 at 9.6; Section 9.2.2 at 9-7; Section 9.3 at 9-7)