

# ESPA Environmental Panel

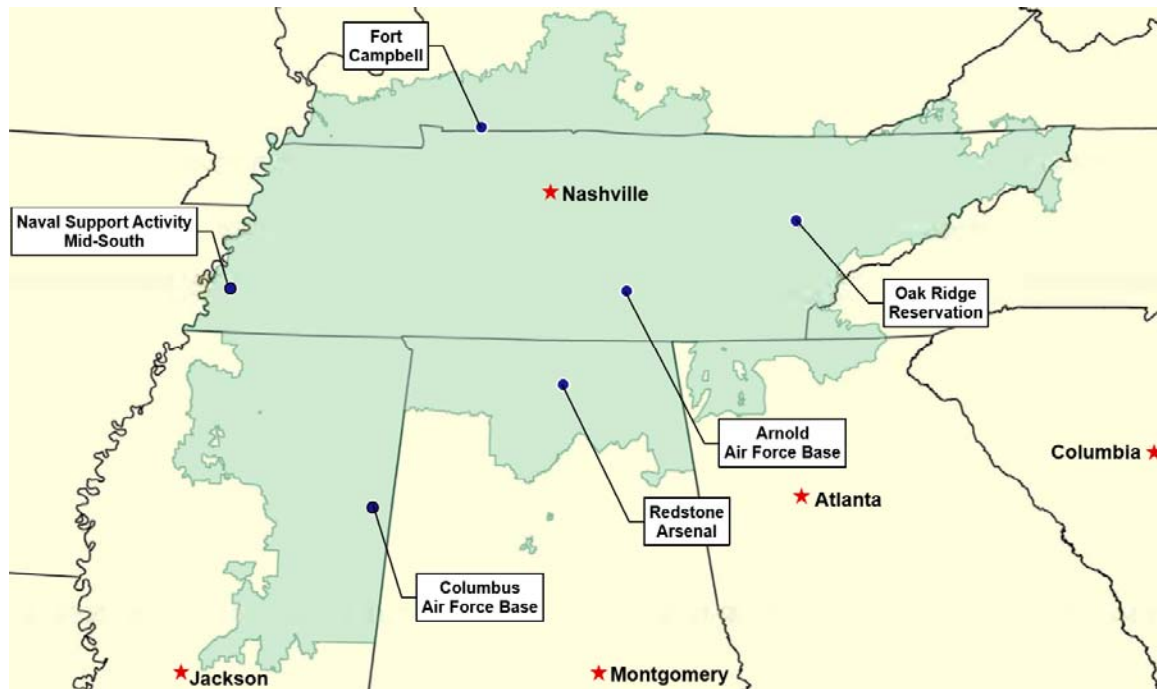


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# Regulatory Bases for the Environmental Report

- National Environmental Policy Act
- NRC Regulations—10 CFR 51 and 10 CFR 52
- NRC Regulatory Guide 4.2, Preparation of Environmental Reports for Nuclear Power Stations
- NRC Regulatory Guide 4.7, General Site Suitability Criteria for Nuclear Power Stations
- NUREG-1555, Standard Review Plans For Environmental Reviews For Nuclear Power Plants
- RS-002, Processing Applications for Early Site Permits.

# Comprehensive Site Selection Process



## Potential Candidate Areas

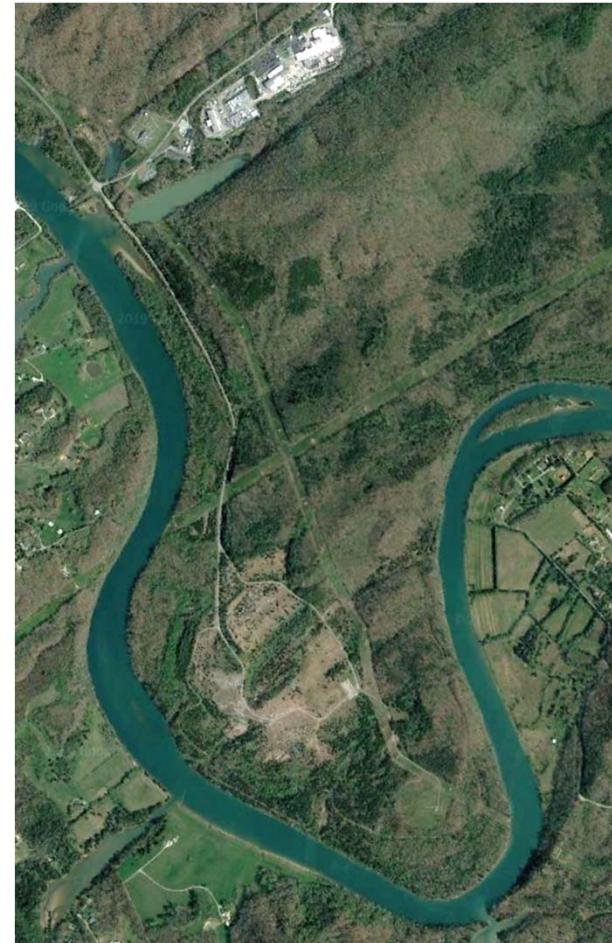
- Naval Support Activity Mid-South
- Oak Ridge Reservation
- Redstone Arsenal
- Arnold Air Force Base
- Columbus Air Force Base
- Fort Campbell

## Regional Screening Criteria

- Seismology considerations
- Cooling-water availability
- Population density
- Proximity to targeted customer

# Clinch River Site

- TVA Managed Property
- Clinch River Site - 935 acres
- Barge/Traffic Area -196 acres
- Owned by the United States of America and managed by TVA as an agent of the federal government
- Site of former Clinch River Breeder Reactor Project
  - Previously Disturbed
  - Well Characterized
- Some basic infrastructure already exists (e.g., retention ponds, roads...)
- Not currently used for power generating activities





# Clinch River Site Environmental – Agency Interactions



- State Historic Preservation Office
- Federally Recognized Tribes
- U.S. Fish & Wildlife
- Tennessee Department of Environment and Conservation
- U.S. Army Corps of Engineers

# Clinch River Site Environmental - Summary



- Comprehensive environmental review
- Socioeconomics - Small to Moderate impact
- Historic and Cultural – Small to Moderate impact
- All other categories – Small impact



# Environmental Report Development

## NRC Interactions - Environmental

- Pre-Environmental Report Visit March 2013
- Clinch River Site Visit October 2014
- Clinch River Site Visit March 2015
- Alternative Sites Visit June 2015
- Readiness Review August 2015
- Environmental Audit May 2017
- NRC Environmental Scoping Meeting May 2017