

Tennessee Valley Authority

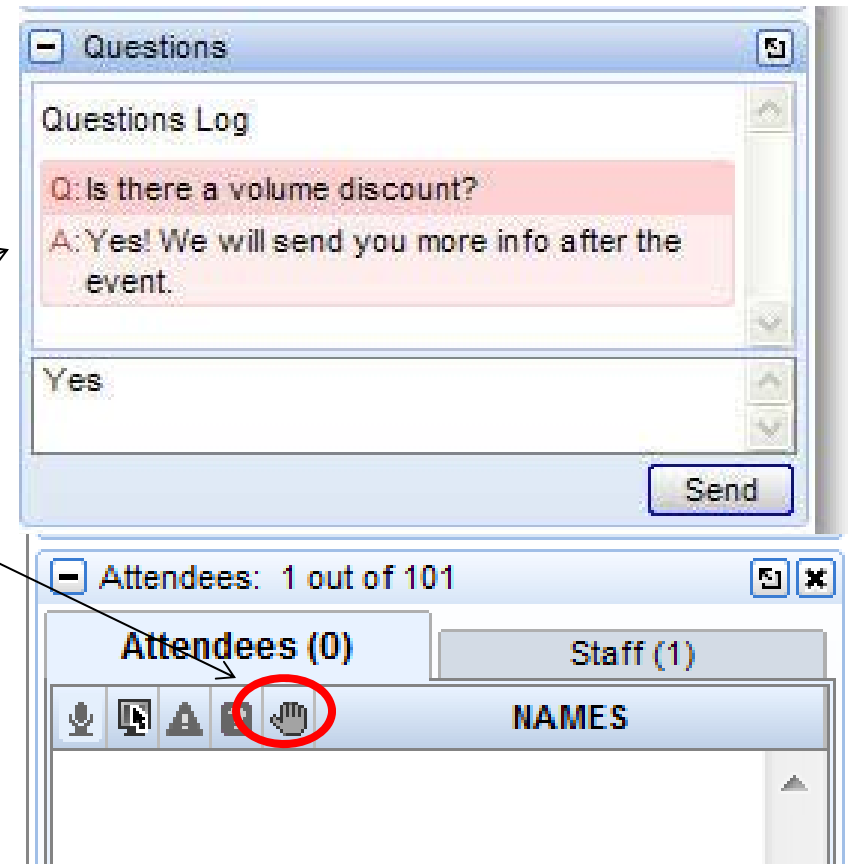
Regional Energy Resource Council

Webinar
July 16, 2014



TVA About Today's Meeting

- ◆ This a Webinar, with some RERC members attending in person.
- ◆ Webinar attendees attending by phone are muted.
- ◆ **RERC Members** can submit questions using the Question tool on the Webinar toolbar, or using the Raise Hand function
- ◆ Questions or comments from the general public will not be accepted during the webinar; however, written comments are welcomed.
 - Send NEPA related comments to: arfarless@tva.gov
 - Send general RERC comments to: bakeel@tva.gov



Welcoming Comments



Agenda

10:00 Welcome

Dus Rogers, Council Chair

Meeting Purpose

**Joe Hoagland,
Designated Federal Officer**

**10:15 Introduction to Allen Draft
Environmental Assessment
and NEPA Process**

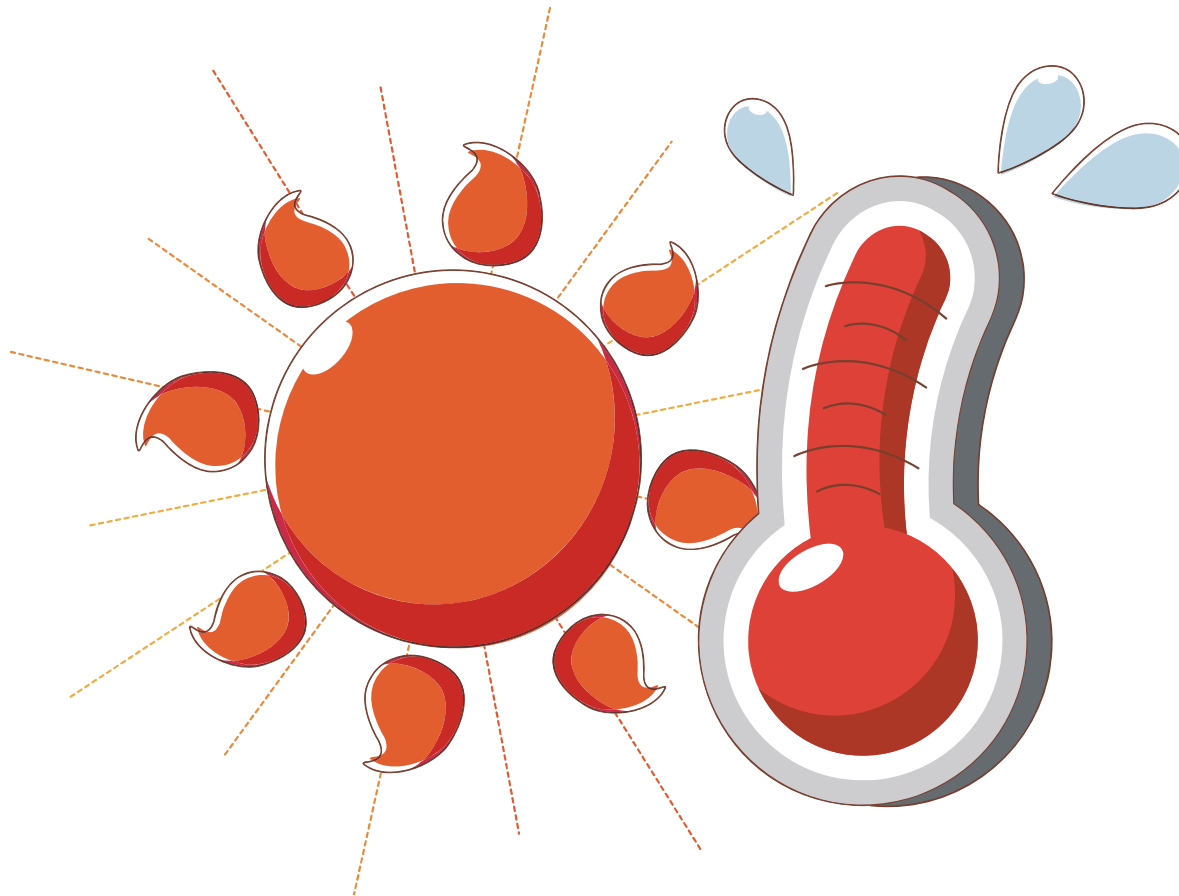
**Amy Henry, Manager NEPA
Program and Environmental
Projects**

**10:45 RERC Member Discussion
and Q&A**

RERC Members

11:15 Wrap up & Adjourn

Hoagland/Rogers



Meeting Purpose



Reminder: Energy Resource Decisions



Overview of the Allen Draft Environmental Assessment

Amy Henry
Manager, NEPA Program
and Valley Projects





National Environmental Policy Act (NEPA)

Federal Law

- ◆ NEPA requires federal agencies to evaluate the potential environmental impacts of proposed actions

Planning process

- ◆ Types of reviews
 - Environmental Impact Statement (EIS)
 - Environmental Assessment (EA)
 - Categorical Exclusion
- ◆ Alternatives
- ◆ Effects Analysis
 - Range of natural, cultural, and social resources
 - Cumulative impacts
 - Irreversible/irretrievable impacts
- ◆ Associated permitting & consultation processes
 - Endangered Species Act
 - National Historic Preservation Act



National Environmental Policy Act (NEPA)

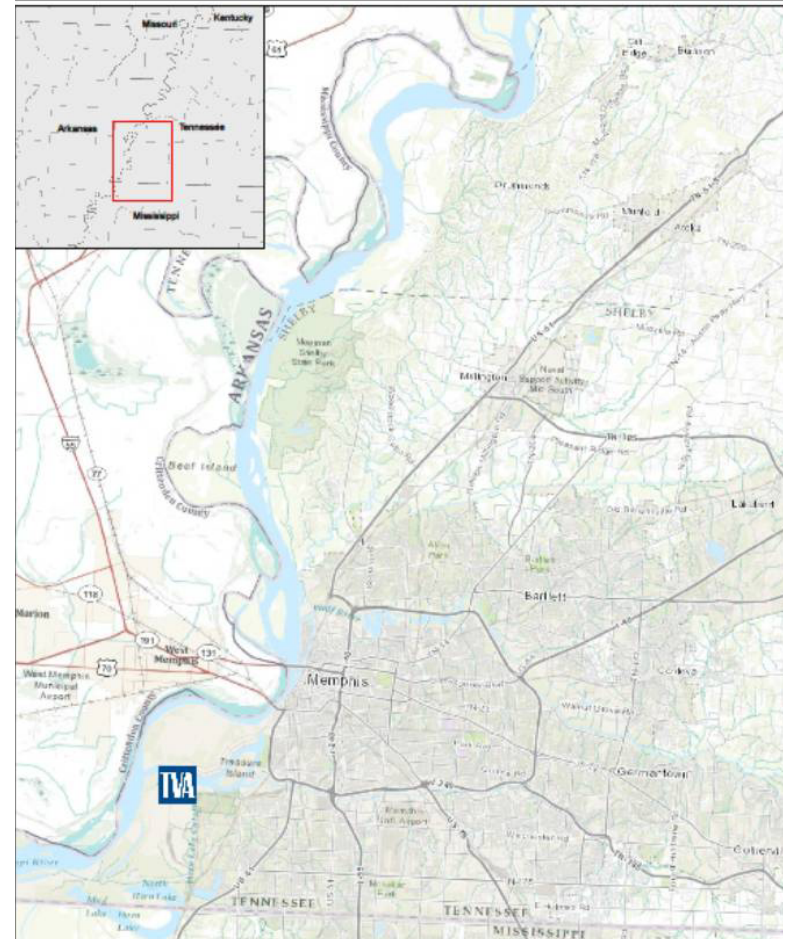
Decision-making tool

- ◆ NEPA results in the examination of environmental effects before making a decision that impacts the physical environment.
- ◆ NEPA does not require selection of the alternative with the most favorable environmental impacts
- ◆ The environmental review is one factor considered by TVA decision makers



Allen Fossil Plant Emission Control Project Allen Fossil Plant

- ◆ Allen Fossil Plant (ALF) in Shelby County, Tennessee
- ◆ Memphis Light, Gas, and Water built ALF in 1950s
- ◆ TVA purchased in 1984
- ◆ 3 coal-fired units produce about 4.8 billion kWh/year, enough to supply 340,000 homes
- ◆ ALF generation provides real and reactive power (voltage support) for the Memphis area





Allen Fossil Plant Emission Control Project **Draft Environmental Assessment (EA)**

Purpose and Need

- ◆ Reduce sulfur dioxide (SO₂) emissions at ALF in order to comply with the EPA Clean Air Agreements, consistent with TVA's mission to provide reliable and affordable power
- ◆ Achieve and maintain a balanced portfolio of generation resources

Proposed Action

- ◆ Construction and operation of a natural-gas fired plant
 - Combustion turbine (CT) and combined cycle (CC) configurations
 - Retirement of the 3 coal-fired units

Environmental Impacts

- ◆ No significant environmental impacts identified
- ◆ Reduced emissions of CO₂, SO₂, NO_x, volatile organic compounds, and methane
- ◆ Opportunity to reuse gray water for cooling
- ◆ Greater use of biogas fuel from the waste water treatment plant



Allen Fossil Plant Emission Control Project **Draft Environmental Assessment (EA)**

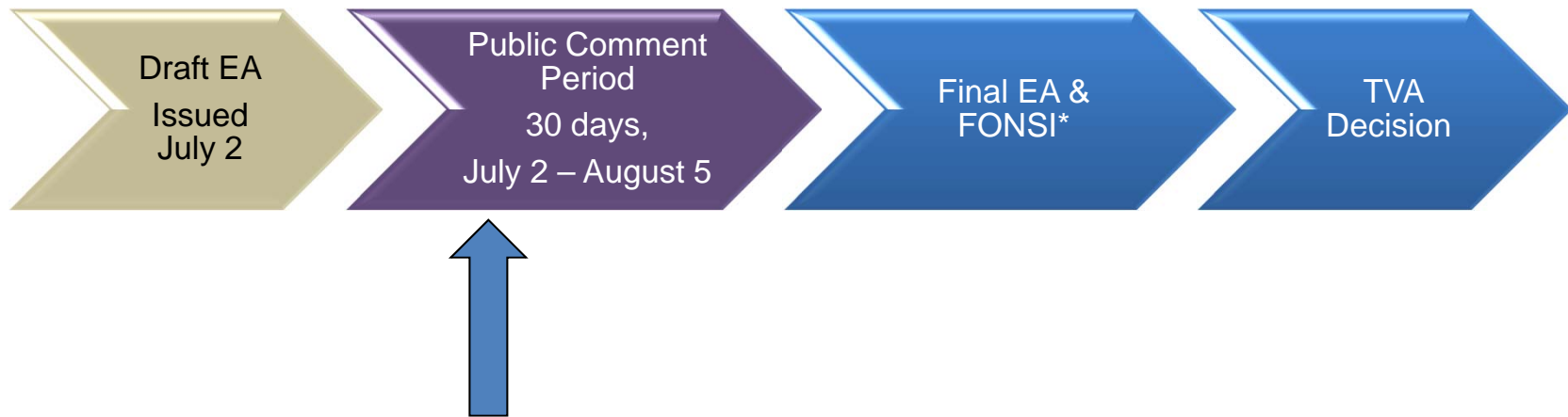
Alternatives

- ◆ No-Action Alternative
- ◆ Proposed Action
- ◆ Six other alternatives are addressed in the draft EA
 - Continue to operate coal-fired units and install FGD system (scrubbers)
 - Convert ALF to natural gas fuel
 - Convert ALF to biomass fuel
 - Retire ALF, rely on energy efficiency
 - Retire ALF, construct a renewable energy source
 - Retire ALF, upgrade the transmission system or rely on purchased power
- ◆ The six alternatives were deemed unreasonable generally because of worse environmental impacts, much higher costs, concerns for providing reactive power, or project schedules



Allen Fossil Plant Emission Control Project Environmental Review, Next Steps

Environmental Assessment (EA)



*assuming no significant impacts



Allen Fossil Plant Emission Control Project **Submit Comments**

**The public is invited to comment on the draft Environmental Assessment
between July 2 and August 5.**

- ◆ Public Open House held in Memphis on July 8
- ◆ On-line: <http://www.tva.com/environment/reports/index.htm>
- ◆ Email: arfarless@tva.gov
- ◆ U.S. Mail:

Ashley Farless, NEPA Specialist
Tennessee Valley Authority
1101 Market St.
Chattanooga, TN 37402

Comments received will be reviewed and addressed in the final EA



Allen Fossil Plant Emission Control Project Final Environmental Assessment

- ◆ The Final Environmental Assessment and FONSI will be posted on TVA's website.

The screenshot displays the Tennessee Valley Authority (TVA) website. The top navigation bar includes links for HOME, ABOUT TVA, ENERGY, ENVIRONMENT, RIVER MANAGEMENT, ECONOMIC DEVELOPMENT, and NEWS. The main content area is titled 'ENVIRONMENT' and features a large image of a tree. Below the image, there is a section for 'Land Management' with the text 'Managing 293,000 acres of land and 11,000 miles of shoreline'. To the left of the image is a sidebar with a list of environmental topics: Environmental Policy, Technology Innovation, Air Quality, Land Management, Water Quality, Environmental Reviews, Recreation, Environmental Management System, TVA Kids, and Sustainability. A red arrow points from the 'Environmental Reviews' link in this sidebar to the 'Environmental Reviews' page. The 'Environmental Reviews' page is shown on the right, featuring a search bar and a list of environmental reviews. A red arrow points from the 'Environmental Reviews' page to the 'Allen Fossil Plant Emission Control Project' link in the 'Open for Comment' section. The 'Open for Comment' section lists several projects, including the Allen Fossil Plant Emission Control Project, Management of Floating Houses, TVA Solar Photovoltaic Projects, Economic Development, Land Use and Permitting, Power Generation, and Marshall Properties Solar Farm.

TVA TENNESSEE VALLEY AUTHORITY

SEARCH GO

HOME ABOUT TVA ENERGY ENVIRONMENT RIVER MANAGEMENT ECONOMIC DEVELOPMENT NEWS

ENVIRONMENT

Land Management
Managing 293,000 acres of land and 11,000 miles of shoreline

LEARN MORE ABOUT:
Dock permits
TVA land policy
Shoreline stabilization

Environmental Policy
Technology Innovation
Air Quality
Land Management
Water Quality
Environmental Reviews
Recreation
Environmental Management System
TVA Kids
Sustainability

Water Land Air Technology

Environmental Reviews

TVA conducts environmental reviews in accordance with the National Environmental Policy Act (NEPA), which requires federal agencies to consider the effects of their proposals on the human environment before decisions are made. Active projects are listed below. Information related to past projects that have been completed, deferred, or canceled may be found in the [TVA NEPA document archive](#).

For TVA NEPA project inquiries that are not addressed at this site, please call 800-882-5263 between 8:00 a.m. and 6:00 p.m. Eastern time Monday -Friday or e-mail questions to TVA's [Environmental Information Center](#).

Open for Comment

- [Allen Fossil Plant Emission Control Project](#)
- [Management of Floating Houses](#)
- [TVA Solar Photovoltaic Projects](#)

Economic Development

- No Current Reviews

Land Use and Permitting

- [Athens Utilities Water and Sewer Line Crossings](#)
- [City of Lakesite Recreation Easement and Water Use Facilities](#)
- [Construction of U. S. Highway 321 and Bridges at Fort Loudoun and Tellico Dam Reservations](#)

Power Generation

- [Bellefonte Site Utility Improvements](#)
- [Bull Run Fossil Plant House Demolition and Hydrogeologic Investigations](#)
- [Five Western North Carolina Solar Farms](#)
- [Fukushima Response Strategy](#)
- [Gallatin Fossil Plant - Installation of Air Pollution Control Equipment and Associated Facilities](#)
- [Independent Spent Fuel Storage Installation Facility, Watts Bar Nuclear Plant](#)
- [Integrated Resource Plan](#)
- [Marshall Properties Solar Farm](#)

NEPA at TVA
Visit this site to learn about the purpose of environmental reviews and the types carried out by TVA.

"The TVA Board welcomes comments and suggestions from the public to help guide us in reaching decisions that will impact our customers, ratepayers and the 9 million people of the Valley who count on us to provide low-cost and reliable electricity, environmental stewardship and economic development."

— Joe Ritch, TVA chairman

RERC Discussion

Wrap Up & Adjourn



Reminder on Where to Submit Comments

For NEPA Specific Comments:

Email: arfarless@tva.gov

U.S. Mail:

Ashley Farless, NEPA Specialist
Tennessee Valley Authority
1101 Market St.
Chattanooga, TN 37402

On-line:

[http://www.tva.com/environment/reports/index.
htm](http://www.tva.com/environment/reports/index.htm)

For general RERC Comments:

Email: bakeel@tva.gov

U.S. Mail:

Beth Keel, Program Manager
Tennessee Valley Authority
400 West Summit Hill Drive, WT-9 C,
Knoxville, Tennessee 37902

On-line:

http://www.tva.com/rerc/rerc_members.htm



Next Steps: Upcoming RERC Meetings

- **Fall Meeting:** Oct 15 and 16, 2014

Location: Knoxville

- **Winter Meeting:** January 2015

Location: TBD

- **Spring Meeting:** March 2015

Location: TBD