

Environmental Screening Checklist

The goal of this program is to optimize the reuse of coal combustion residuals (CCR) currently produced and stored at TVA coal plants by programmatically evaluating the construction and operation of on-site CCR beneficiation processing facilities at TVA coal plants. This Environmental Screening Checklist is used to collect project information to determine whether proposed actions fall within the bounding parameters identified in Table 2-1 of the Programmatic Environmental Assessment (PEA).

A TVA National Environmental Policy Act (NEPA) Specialist/Environmental Program Manager will complete this checklist well before construction activities begin, in accordance with TVA’s legal and policy requirements associated with this program. The NEPA Specialist and Environmental Program Manager will ensure that TVA Subject Matter Experts document input for their respective resource categories for final environmental review and site approval.

TVA NEPA Specialist (name):

TVA Environmental Program Manager (name):

Proposed Coal Plant Site Name/Address (or lat/long):

If the answer to any question below is *YES*, further review of environmental impacts by TVA may be required.

If TVA determines that the proposed project impacts sensitive resources beyond the bounded values assessed in the PEA associated with this checklist, the proposed project would be subject to a site-specific environmental review consistent with TVA NEPA procedures.

Facility Attributes	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will the land requirements exceed 15 acres? Project area acreage:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will more than 7 megawatts (MW) of power be needed?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would new transmission facilities be needed?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would the process water requirement be greater than 150 gallons per minute (GPM)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would the potable water requirement be greater than 25 GPM?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would more than 50 GPM be discharged to publicly owned treatment works?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would the total output capacity be greater than 1,000,000 tons of processed CCR per year?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would raw material storage be greater than 15,000 cubic yards (yd ³)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would processed material storage be greater than 45,000 yd ³ ?

TVA Construction and Operation of CCR Beneficiation Processing Facilities
 Environmental Screening Checklist

Construction-Phase Attributes	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will the duration of construction exceed 18 months?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will foundation piers exceed 40 feet in depth?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is borrow material needed to support construction?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will removal of trees with a trunk diameter greater than 3 inches at breast height be necessary? If so, how many trees or acres of trees will be cleared? _____ trees/acres If yes, how will the cleared trees be disposed (i.e. sold, hauled offsite, mulched, burned, etc.): _____
<input type="checkbox"/> Yes <input type="checkbox"/> No	Can the project commit to tree clearing only within a winter window (approximately October 15-March 31 - dates may vary depending on site location)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will development of the site require filling in, or alterations to, wetlands or streams, or streamside management zones?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will development of the site result in impacts to caves or sinkholes?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will development – including laydown areas, fill, structures, buildings, and activities – be located within the Federal Emergency Management Agency (FEMA) 100-year floodplain as well as the area below the 100-year flood elevation?
Operational Characteristics	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will operations exceed 50 weeks per year; 350 operating days per year?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would storage requirements of natural gas/propane be greater than 100,000 gallons?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would trucking of processed CCR product exceed 300 days per year?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would daily truckloads of processed CCR product be greater than 125 (250 truck trips)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would solid waste generated be greater than 1,500 tons per year?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would wastewater be discharged greater than 50 gallons per minute?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Would transport by rail or barge be utilized?
Air Quality/Greenhouse Gases (GHG)	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is the site located in or contributing to an area that is designated as non-attainment for one or more criteria air pollutants (National Ambient Air Quality Standards)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Will emissions exceed the following thresholds? Sulfur dioxide: 140 tons per year; nitrogen oxides and carbon monoxide: 120 tons per year; particulate matter: 120 tons/year; hazardous air pollutants (HAPs): Single HAP 10 tons/year or 25 tons/year for any combination of HAPs.

TVA Construction and Operation of CCR Beneficiation Processing Facilities
 Environmental Screening Checklist

<input type="checkbox"/> Yes <input type="checkbox"/> No	Will GHG emissions exceed the following thresholds? Carbon dioxide: 160,872 tons per year; methane: 0.07 tons per year; nitrous oxide: 0.01 tons per year; carbon dioxide equivalent: 161,000 tons per year.
Reasonably Foreseeable Future Actions	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are other actions underway or proposed that, when combined with potential effects of construction and operation of the proposed project, could have a notable collective effect on human health or the environment?

TVA Subject Matter Experts reviewed the material presented in this checklist. Documentation of their review is attached.

In accordance with NEPA, TVA must evaluate and document whether the proposed action described within this document is already covered under an existing NEPA review. The following questions record the evaluation of four criteria for making this determination.

Determination of NEPA Adequacy	
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is the site-specific proposed action bounded by the proposed action as analyzed in the TVA Beneficiation Facility PEA? If no, describe:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are there significant circumstances or information relevant to site-specific environmental concerns that would substantially change the analysis in the TVA Beneficiation Facility PEA? If yes, describe:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are there effects that would result from the site-specific proposed action that were not addressed in the TVA Beneficiation Facility PEA? If yes, describe:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is additional site-specific NEPA necessary? If yes, explain:

Based on the evaluation documented herein, I conclude that the TVA Beneficiation Facility PEA and Finding of No Significant Impact (FONSI) fully cover the proposed site-specific action and constitutes TVA’s legal and policy requirements associated with this program. The site-specific project does not present significant changes to the proposed action or significant new circumstances or information relevant to environmental concerns that would require supplemental analysis. Impacts associated with the proposed action would be minor to moderate and are bounded by the conclusions of the Final PEA and FONSI. This form documents TVA’s compliance with NEPA for this site-specific action.

 NAME
 Manager, NEPA Compliance
 Tennessee Valley Authority

 Date Signed