Document Type: Index Field:

Project Name:

EA-Administrative Record **Adoption and** Finding of No Significant Impact (FONSI) Jefferson County InvestPrep Economic Development

Project Number: 2020-1

### ADOPTION AND FINDING OF NO SIGNIFICANT IMPACT TENNESSEE VALLEY AUTHORITY

### ECONOMIC DEVELOPMENT – HUNT PROPERTY JEFFERSON COUNTY, TENNESSEE

The Industrial Development Board (IDB) of Jefferson City, Tennessee purchased approximately 69 acres of available property, known as the Hunt Property, for potential industrial development with funding assistance from the United States Department of Agriculture (USDA) Rural Economic Development Loan and Grant (REDLG) Program. The USDA REDLG program provides funding for rural projects through local utility organizations. USDA provides zero-interest loans to local utilities which they, in turn, pass through to local businesses for projects that will create and retain employment in rural areas. The Hunt Property lies between Chucky Pike and Odyssey Road in Jefferson County, Tennessee (see **Figure 1** below) and has access to rail transportation. The site has been identified by many studies as a suitable site for industrial development. The Jefferson City IDB purchased the property, so that they may add it to their inventory of available industrial property.

An integral part of Tennessee Valley Authority's (TVA) mission is to promote economic development within the TVA service area. TVA provides financial assistance to help bring to market new/improved sites and facilities within the TVA service area and position communities to compete successfully for new jobs and capital investment. TVA proposes to provide an economic development grant through TVA InvestPrep funds to the IDB of Jefferson City to improve marketability of the Hunt Property. TVA funds would be used for removing select trees (approximately 1.1 acres), the rough grading of 25 acres and construction of an access road and sediment basin.

The USDA reviewed the potential impacts of providing a REDLG grant to the IDB of Jefferson City for the purchase and industrial development of the Hunt Property in an Environmental Assessment prepared in April 2019. Although TVA's action differs from the USDA's action, the environmental impacts associated with TVA's proposed action is contained within the same property boundary that was analyzed in the USDA EA, with the exception of minor tree clearing areas closest to the railroad, Slate Road and Odyssey Road (see Area of Potential Effect in Figure 1 below). TVA has critically reviewed the USDA EA and determined that in reviewing the impacts of the proposed USDA grant, the scope, alternatives considered, and content of the EA are adequate in identifying the environmental issues related to TVA's action for most resource areas. The USDA EA is herein incorporated by reference. Air quality, land use, prime farmland, recreation, managed areas, noise, socioeconomics and environmental justice, aquatics, wetlands, transportation and visual resources were adequately addressed in the USDA EA and do not require additional analysis. However, TVA has determined that the EA does not completely address the impacts associated with terrestrial zoology, threatened and endangered species, surface water, solid and hazardous waste, floodplains and cultural resource impacts. Therefore, we have decided to address these issues more fully with supplemental analysis to the EA provided herein.



Figure 1: Hunt Property, Jefferson City, Tennessee

#### **Alternatives Considered**

TVA considered two alternatives: the No Action Alternative and the Action Alternative. In the No Action Alternative, TVA would not provide TVA InvestPrep funds to the IDB of Jefferson City and therefore there would be no direct, indirect, or cumulative impacts due to a TVA action.

Under the Action Alternative, TVA proposes to provide an economic development grant

through the TVA InvestPrep program to the IDB of Jefferson City to improve marketability of the Hunt Property. TVA funds would be used for removing select trees (approximately 1.1 acres), the rough grading of 25 acres and construction of an access road and sediment basin. Consequences of the Action Alternative would be the same as described under the USDA's assessment of the Proposed Action Alternative, which included the eventual industrial development of the Hunt Property.

#### **Impacts Assessment**

The USDA EA analyzed environmental impacts related to the construction and operation of industrial development on the entire Hunt Property, totaling 69 acres. Approximately 38 acres of the total 69 acres would be affected by TVA's proposed action. Adverse impacts to air quality, land use, prime farmland, recreation, managed areas, noise, socioeconomics and environmental justice, aquatics, wetlands, transportation and visual resources, as well as cumulative impacts to these resources, would be minimal and/or temporary, were adequately addressed in the USDA EA and do not require additional analysis. Additionally, upon further review of the proposed action, TVA has determined there would be no impacts from the creation of solid or hazardous wastes.

The Hunt Property consists of approximately 67% agricultural land, 19% hardwood forest, and 14% old fields and scattered hardwoods. As a result of TVA's proposed action, an estimated 1.1 acres of vegetation would be permanently removed. The removal of this habitat may result in displacement of wildlife and loss or conversion of suitable habitat for various wildlife species. However, wildlife species common to the area would be expected to return to the peripheral areas and to portions of the project site where vegetation has not been cleared.

As part of the USDA EA, McGill Associates performed a site evaluation on December 21, 2018, and found no wetlands or jurisdictional waters of the U.S. on the property. There are no identified floodplains within the parcel boundary; however, topographic maps indicate the presence of a stream. A hydrologic investigation was conducted in April 2019 that concluded that the feature is a wet-weather conveyance and not a perennial stream. Additionally, TVA's actions would not encroach on the wet-weather conveyance. Thus, the project would be consistent with E.O. 11988, Floodplain Management and E.O. 11990, Protection of Wetlands. Minor indirect impacts in the form of erosion and sedimentation could temporarily result from construction activities as part of TVA's proposed action. However, any construction project that disturbs one or more acres of land requires a state-issued General Permit for Construction Stormwater from the state of Tennessee as well as a Stormwater Pollution Prevention Plan. Compliance with permit conditions as well as implementation of Best Management Practices (BMP) would minimize potential impacts on surface waters.

Review of the U.S. Fish and Wildlife Service's Information for Planning and Consultation Website identified 11 migratory birds of conservation concern that have the potential to occur in the action area (bald eagle, bobolink, Canada warbler, cerulean warbler, eastern, whip-poor-will, Kentucky warbler, prairie warbler, red-headed woodpecker, rusty blackbird, wood thrush, and yellow-bellied sapsucker). No migratory birds of conservation concern were documented within the project footprint during field reviews. Marginal habitat for bobolink, Canada warbler, eastern whip-poor-will, Kentucky warbler, prairie warbler, red-headed woodpecker, and yellow-bellied sapsucker exists in the action area. Direct impacts could occur to individuals of these species if they were using the action area during the time of construction or tree removal, especially if individuals were immobile at the time of vegetation removal (i.e. eggs, nestlings). However, due to the relatively small scope of the actions, and presence of additionally suitable habitat in

adjacent landscapes, proposed actions are not expected to impact populations of migratory birds.

A review of terrestrial animal records in the TVA Natural Heritage database on October 14th, 2019, resulted in no records of state-listed species, federally listed species, or federally protected species within 3.0 miles of the project footprint. Two federally listed species (gray bat and northern long-eared bat) and one federally protected species (bald eagle) are known from Jefferson County, Tennessee. Though there is no known record of Indiana bat from Jefferson County, Tennessee, the project footprint falls within the known range of the species; thus impacts to this species also were evaluated.

On December 5th, 2019, TVA conducted a field review of the project site, including the four minor additional areas with proposed tree clearing (as shown on Figure 1). No bald eagles or bald eagle nests were observed or have been documented within 660 feet of the project footprint and project actions are in compliance with the National Bald Eagle Management Guidelines. Therefore, significant impacts to bald eagle are not anticipated.

No winter or summer roosting habitat was identified during field reviews for gray bat, Indiana bat, or northern long-eared bat. No caves were documented within 200 feet of the project footprint. Trees proposed for removal do provide a small amount of habitat for foraging federally listed bats. No wetlands have been documented within the project footprint. Previous survey efforts by GEOServices documented one ephemeral stream (wet weather conveyance) and a culvert in the project area, but neither falls within TVA's action area. The stream could be used seasonally by foraging bats, but would not be impacted by TVA's actions. The culvert is not likely to be used by roosting bats as it is extremely short, with no dark zone.

A number of activities associated with the proposed project were addressed in TVA's programmatic consultation with the U.S. Fish and Wildlife Service on routine actions and federally listed bats in accordance with ESA Section 7(a)(2) and completed in April 2018. For those activities with potential to affect bats, TVA committed to implementing specific conservation measures. These activities and associated conservation measures are identified on page 5 of the TVA Bat Strategy Project Screening Form (Attachment 1) and need to be reviewed/implemented as part of the proposed project. With the use of identified conservation measures, significant impacts to gray bat, Indiana bat, and northern long-eared bat are not anticipated as a result of the proposed project. No significant effects would occur to endangered or threatened species.

Pursuant to compliance with Section 106 of the National Historic Preservation Act and implementing regulations 36 CFR 800, TVA conducted a Phase I survey to identify cultural resources within the area of potential effect (APE) (shown on Figure 1) that are listed or could be eligible or potentially eligible for listing on the National Register of Historic Places (NRHP). In preparation for conducting the survey, TVA conducted a search of the site survey files and other resources available at the Tennessee Division of Archaeology and at the Tennessee Historical Commission. Additionally, TVA conducted a review of the local and regional historical and archaeological literature and interviewed local informants to identify important historical contexts for the study area. As a result of the background research and Phase I survey, and in consultation with the State Historic Preservation Officer (SHPO) and federally-recognized Indian tribes ("in consultation"), TVA determined that APE contains one resource eligible for listing in the National Register of Historic Places. The resource is designated as archaeological site 40JE222 and is a portion of the U.S. Civil War Battlefield of Mossy Creek (fought Dec. 29, 1863)

as defined by Update to the Civil War Sites Advisory Commission Report on the Nation's Civil War Battlefields (2009), published by the National Park Service. The National Park Service has previously stated their determination that the battlefield and site 40JE222 are eligible for listing on the NRHP, and TVA agrees with that determination. TVA found, in consultation, that the proposed undertaking would result in an adverse effect to the battlefield due to the cumulative effects of industrial development in diminishing the battlefield's integrity of setting, association, and feeling. TVA has proposed to resolve this adverse effect through mitigation measures that would include the placement of a historic marker detailing the Battle of Mossy Creek within the project area. TVA has executed a Memorandum of Agreement (MOA) that stipulates these mitigation measures for resolution of the undertaking's adverse effect on 40JE222. The State Historic Preservation Officer letter of concurrence and the MOA is included in Attachment 2.

#### Mitigation

The environmental effects of TVA's proposed action were determined to be minor and insignificant. TVA would implement the routine BMPs and the conservation measures identified on the TVA Bat Strategy Project Screening Form. TVA has entered into a MOA with the Tennessee SHPO and will implement the mitigation measures agreed upon during consultation to mitigate the adverse effect on the NRHP eligible site 40JE222.

#### **Conclusion and Findings**

TVA has independently reviewed the USDA EA and the underlying reports and has found the USDA document to be adequate of the environmental effects and potential consequences of TVA's proposed actions on air quality, land use, prime farmland, recreation, managed areas, noise, socioeconomics and environmental justice, aquatics, wetlands, transportation and visual resources. TVA is therefore adopting the USDA EA and expanded its analysis to include the environmental effects on terrestrial zoology, threatened and endangered species, surface water, solid and hazardous waste, floodplains and cultural resources. Based on the USDA EA, this subsequent analysis, and the implementation of the mitigation measures described above, TVA concludes that providing InvestPrep funds to the IDB of Jefferson City would not be a major federal action significantly affecting the environment. Accordingly, preparation of an environmental impact statement is not required.

S. Dawn Booker

Manager, NEPA Program

Environmental Compliance and Operations

Tennessee Valley Authority

05/12/2020

Date Signed

## ATTACHMENT 1 BAT CONSERVATION MEASURES

#### **Project Review Form - TVA Bat Strategy** (06/2019)

This form should **only** be completed if project includes activities in Tables 2 or 3 (STEP 2 below). This form is not required if project activities are limited to Table 1 (STEP 2) or otherwise determined to have no effect on federally listed bats. If so, include the following statement in your environmental compliance document (e.g., add as a comment in the project CEC): "Project activities limited to Bat Strategy Table 1 or otherwise determined to have no effect on federally listed bats. Bat Strategy Project Review Form NOT required." This form is to assist in determining required conservation measures per TVA's ESA Section 7 programmatic consultation for routine actions and federally listed bats. <sup>1</sup>

actions and fea	lerally listed bats. <sup>I</sup>					
Project Name:	Economic Development I	nvestPrep Grant for Jefferson Cou	Grant for Jefferson County, TN			2019
Contact(s): Ashley Pilakowski		CEC#:			ject ID:	409298
<b>Project Locatio</b>	n (City, County, State):	Jefferson City, Jefferson Count	y, Tennessee			
Project Descrip	otion:					
TVA proposes	to provide an economic deve	lopment grant through TVA Inves	tPrepTM funds to the II	DB of Jeff	erson City	to improve
marketability (	of the Hunt Property. TVA fund	ds would be used for removing se	lect trees (approximatel	y 1.1 acre	s), the rou	ugh grading of
25 acres and c	onstruction of an access road	and sediment basin.				
SECTION 1: PR	ROJECT INFORMATION - AC	TION AND ACTIVITIES				
		icable, contact environmental s olication of Bat Programmatic C				d, or Terrestria
1 Manage Bio	ological Resources for Biodiversit	y and Public Use on TVA Reservoir	6 Maintain Existir	ng Electric	Transmissi	on Assets
2 Protect Cultural Resources on TVA-Retained Land			7 Convey Proper Transmission	7 Convey Property associated with Electric Transmission		
3 Manage Land Use and Disposal of TVA-Retained Land			8 Expand or Cons	8 Expand or Construct New Electric Transmission Assets		
4 Manage Permitting under Section 26a of the TVA Act			9 Promote Econo	mic Devel	opment	
5 Operate, Maintain, Retire, Expand, Construct Power Plants			10 Promote Mid-	Scale Solai	r Generatio	'n
STEP 2) Select	all activities from Tables 1	, 2, and 3 below that are includ	ded in the proposed p	roject.		
TABLE 1. Active required.	vities with no effect to bats.	Conservation measures & comp	letion of bat strategy <sub>l</sub>	project re	eview for	m NOT
■ 1. Loans an	d/or grant awards	8. Sale of TVA property				ents in streams itic animals
2. Purchase	of property	9. Lease of TVA property	☐ 20. Ne	esting plat	forms	
3. Purchase facilities	e of equipment for industrial s	10. Deed modification associat rights or TVA property	red with TVA			ictures (this does s, boat slips or
4. Environm	nental education	11. Abandonment of TVA retai		ternal renc an existin		nternal expansio
5. Transfer o	of ROW easement and/or ROW nent	12. Sufferance agreement	☐ 43. Re	placemen	t or remov	al of TL poles
6. Property	and/or equipment transfer	13. Engineering or environmer or studies			nd overhea	ad ground wire ement

☐ 14. Harbor limits delineation

49. Non-navigable houseboats

7. Easement on TVA property

TABLE 2. Activities not likely to adversely affect bats with implementation of conservation measures. Conservation measures and completion of bat strategy project review form REQUIRED; review of bat records in proximity to project NOT required.					
18. Erosion control, minor	<u> </u>	Water intake - non-industrial	<u> </u>	Swimming pools/associated equipment	
24. Tree planting	<u></u>	Wastewater outfalls	81.	Water intakes – industrial	
30. Dredging and excavation; recessed harbor areas	<u> </u>	Marine fueling facilities	84.	On-site/off-site public utility relocation or construction or extension	
39. Berm development		Commercial water-use facilities (e.g., marinas)	<b>85.</b>	Playground equipment - land-based	
40. Closed loop heat exchangers (heat pumps)	61. 9	Septic fields	■ 87.	Aboveground storage tanks	
45. Stream monitoring equipment - placement and use		Private, residential docks, piers, boathouses	88. Underground storage tanks		
46. Floating boat slips within approved harbor limits	67. 9	Siting of temporary office trailers	90. Pond closure		
48. Laydown areas		Financing for speculative building construction	93. Standard License		
50. Minor land based structures	72. F	erry landings/service operations	94.	Special Use License	
51. Signage installation	74. F	Recreational vehicle campsites	95.	Recreation License	
53. Mooring buoys or posts	☐ 75. l	Jtility lines/light poles	96.	Land Use Permit	
56. Culverts	<u> </u>	Concrete sidewalks			
Table 3: Activities that may adversely affect federally listed bats. Conservation measures AND completion of bat strategy project review form REQUIRED; review of bat records in proximity of project REQUIRED by OSAR/Heritage eMap reviewer or Terrestrial Zoologist.					
15. Windshield and ground surveys for archae resources	eological	34. Mechanical vegetation removal includes trees or tree branches inches in diameter		69. Renovation of existing structures	
16. Drilling	16. Drilling			70. Lock maintenance/ construction	
17. Mechanical vegetation removal, does not include trees or branches > 3" in diameter (in Table 3 due to potential for woody burn piles)		36. Grading		71. Concrete dam modification	
21. Herbicide use	37. Installation of soil improvement	S	73. Boat launching ramps		
22. Grubbing		38. Drain installations for ponds		77. Construction or expansion of land-based buildings	
23. Prescribed burns	23. Prescribed burns			78. Wastewater treatment plants	
25. Maintenance, improvement or construction of pedestrian or vehicular access corridors		52. Floating buildings		80. Barge fleeting areas	
26. Maintenance/construction of access control measures		54. Maintenance of water control st (dewatering units, spillways, lev		82. Construction of dam/weirs/ levees	
27. Restoration of sites following human use a	and abuse	55. Solar panels		83. Submarine pipeline, directional boring operations	
28. Removal of debris (e.g., dump sites, hazardous material, unauthorized structures)		62. Blasting		86. Landfill construction	
29. Acquisition and use of fill/borrow material	63. Foundation installation for trans support	smission	89. Structure demolition		
31. Stream/wetland crossings		64. Installation of steel structure, ov bus, equipment, etc.	erhead	91. Bridge replacement	
32. Clean-up following storm damage	65. Pole and/or tower installation an extension	nd/or	92. Return of archaeological remains to former burial sites		
33. Removal of hazardous trees/tree branches					

STEP 4) Answer q	uestions <u>a</u> through	<u>e</u> below (applies to	projects with act	tivities from Table	3 ONLY)	
<ul> <li>a) Will project involve continuous noise (i.e., ≥ 24 hrs) that is greater than 75 decibels measured on the A scale (e.g., loud machinery)?</li> <li>NO (NV2 does not apply)</li> <li>YES (NV2 applies, subject to records review)</li> </ul>						
<b>b)</b> Will project invo	<b>b)</b> Will project involve entry into/survey of cave?  NO (HP1/HP2 do not apply)  YES (HP1/HP2 applies, subject to review of bat records)					t to review of bat
c) If conducting pro	escribed burning (ac	tivity 23), estimated	acreage:	and tin	neframe(s) below;	; <b>N/A</b>
STATE	SWARMING	WINTER	NON-V	VINTER	PUP	
GA, KY, TN	Oct 15 - Nov 14	Nov 15 - Mar 31	Apr 1 - May 31	, Aug 1- Oct 14	☐ Jun 1 - Jul 31	
VA	Sep 16 - Nov 15		Apr 15 - May 3	1, Aug 1 – Sept 15	☐ Jun 1 - Jul 31	
AL	Oct 15 - Nov 14	Nov 15 - Mar 15	Mar 16 - May 3	31, Aug 1 - Oct 14	☐ Jun 1 - Jul 31	
NC	Oct 15 - Nov 14	☐ Nov 15 - Apr 15	☐ Apr 16 - May 3	1, Aug 1 - Oct 14	☐ Jun 1 - Jul 31	
MS	Oct 1 - Nov 14	☐ Nov 15 - Apr 14	Apr 15 - May 3	1, Aug 1 – Sept 30	☐ Jun 1 - Jul 31	
d) Will the project in	nvolve vegetation pilir	ng/burning? ( N	O (SSPC4/ SHF7/SH	HF8 do not apply)		<u> </u>
			ES (SSPC4/SHF7/SH	HF8 applies, subject	to review of bat i	records)
e) If tree removal (a	activity 33 or 34), est	imated amount: 1.1		●ac ○trees	○N/A	
STATE	SWARMING	WINTER	NON-V	VINTER	PUP	
GA, KY, TN	Oct 15 - Nov 14	Nov 15 - Mar 31	Apr 1 - May 31	, Aug 1- Oct 14	☐ Jun 1 - Jul 31	
VA	Sep 16 - Nov 15	☐ Nov 16 - Apr 14	Apr 15 - May 3	1, Aug 1 – Sept 15	☐ Jun 1 - Jul 31	
AL	Oct 15 - Nov 14	Nov 15 - Mar 15	Mar 16 - May 3	1, Aug 1 - Oct 14	☐ Jun 1 - Jul 31	
NC	Oct 15 - Nov 14	Nov 15 - Apr 15	Apr 16 - May 3	1, Aug 1 - Oct 14	☐ Jun 1 - Jul 31	
MS	Oct 1 - Nov 14	Nov 15 - Apr 14	Apr 15 - May 3	1, Aug 1 – Sept 30	☐ Jun 1 - Jul 31	
If warranted, does project have flexibility for bat surveys (May 15-Aug 15):   MAYBE YES NO						
*** For <b>PROJECT LEADS</b> whose projects will be reviewed by a Heritage Reviewer (Natural Resources Organization only), <b>STOP HERE</b> . Click File/Save As, name form as "ProjectLead_BatForm_CEC-or-ProjectIDNo_Date", and submit with project information. Otherwise continue to Step 5. ***						
SECTION 2: REVIEW OF BAT RECORDS (applies to projects with activities from Table 3 ONLY)						
STEP 5) Review of	bat/cave records co	onducted by Herita	ae/OSAR reviewe	er?		
STEP 5) Review of bat/cave records conducted by Heritage/OSAR reviewer?  • YES O NO (Go to Step 13)						
Info below complete					Date	
	OSAR Rev	, ,			Date	
	■ Terrestria	l Zoologist (name)	Elizabeth Hamric	k	Date [	Dec 23, 2019
Gray bat records:		_		Within the Cour	•	
Indiana bat records:  None Within 10 miles* Within a cave* Capture/roost tree* Within the County						
Northern long-eared bat records: None Within 5 miles* Within a cave* Capture/roost tree* Within the Count						
Virginia big-eared bat records: ☐ None ☐ Within 6 miles* ☐ Within the County						
Caves: None within 3 mi Within 3 miles but > 0.5 mi Within 0.5 mi but > 0.25 mi* Within 0.25 mi but > 200 feet*						
☐ Within 200 feet*						
Bat Habitat Inspection Sheet completed?    NO C YES						
Amount of SUITAB	LE habitat to be rem	oved/burned (may o	differ from STEP 4	<b>e)</b> : 0	((ac (	trees)* ON/A

	<b>Project Review</b>	Form - TVA Bat St	rategy (06/2019)		
STEP 6) Provide any additional notes resulting from Heritage Reviewer records review in Notes box below then					
• • • • • • • • • • • • • • • • • • • •				Go to Step 13	
Notes from Bat Records Review (e.g.	, historic record; bats i	not on landscape d	uring action; DOT bridge su	rvey with negative results):	
STEPS 7-12 To be Completed by To	errestrial Zoologist	(if warranted):			
STEP 7) Project will involve:					
Removal of suitable trees within 0 NLEB hibernacula.	Removal of suitable trees within 0.5 mile of P1-P2 Indiana bat hibernacula or 0.25 mile of P3-P4 Indiana bat hibernacula or any NLEB hibernacula.				
Removal of suitable trees within	10 miles of documente	ed Indiana bat (or v	vithin 5 miles of NLEB) hibe	rnacula.	
Removal of suitable trees > 10 m	iles from documented	I Indiana bat (> 5 m	niles from NLEB) hibernacul	a.	
Removal of trees within 150 feet	of a documented India	ana bat or northern	long-eared bat maternity ro	ost tree.	
Removal of suitable trees within 2	2.5 miles of Indiana ba	at roost trees or wit	thin 5 miles of Indiana bat ca	apture sites.	
Removal of suitable trees > 2.5 n	niles from Indiana bat	roost trees or > 5 r	miles from Indiana bat captu	re sites.	
Removal of documented Indiana	bat or NLEB roost tre	e, if still suitable.			
⊠ N/A					
STEP 8) Presence/absence surveys	were/will be condu	icted: O YES	NO		
STEP 9) Presence/absence survey	results, on	○ NEC	GATIVE O POSITIVE	N/A	
STEP 10) Project ○ WILL ● WILL	. <b>NOT</b> require use of	Incidental Take in	the amount of	○ acres or ○ trees	
proposed to be used during the O	WINTER O VOLAN	IT SEASON ON	ON-VOLANT SEASON (a)	N/A	
STEP 11) Available Incidental Take	e (prior to accounting	g for this project	) as of		
TVA Action	Total 20-year	Winter	Volant Season	Non-Volant Season	
9 Promote Economic Development					
STEP 12) Amount contributed to TVA's Bat Conservation Fund upon activity completion: \$ OR O N/A					
TERRESTRIAL ZOOLOGISTS, after completing SECTION 2, review Table 4, modify as needed, and then complete section for Terrestrial Zoologists at end of form.					
SECTION 3: REQUIRED CONSERVATION MEASURES					
STEP 13) Review Conservation Measures in Table 4 and ensure those selected are relevant to the project. If not, manually override and uncheck irrelevant measures, and explain why in ADDITIONAL NOTES below Table 4.					
Did review of Table 4 result in <u>ANY</u> remaining Conservation Measures in <u>RED</u> ?					

YES (STOP HERE; Submit for Terrestrial Zoology Review. Click File/Save As, name form as "ProjectLead\_BatForm\_CEC-or-

ProjectIDNo\_Date", and submit with project information).

**NO** (Go to Step 14)

#### Table 4. TVA's ESA Section 7 Programmatic Bat Consultation Required Conservation Measures

The Conservation Measures in Table 4 are automatically selected based on your choices in Tables 2 and 3 but can be manually overridden, if necessary. To Manually override, press the button and enter your name.

Manual Override

Name: Elizabeth Hamrick

Check if Applies to Project	Activities Subject To Conservation Measure	Conservation Measure Description
		<b>NV1</b> - Noise will be short-term, transient, and not significantly different from urban interface or natural events (i.e., thunderstorms) that bats are frequently exposed to when present on the landscape.
		<b>SSPC2</b> - Operations involving chemical/fuel storage or resupply and vehicle servicing will be handled outside of riparian zones (streamside management zones) in a manner to prevent these items from reaching a watercourse. Earthen berms or other effective means are installed to protect stream channel from direct surface runoff. Servicing will be done with care to avoid leakage, spillage, and subsequent stream, wetland, or ground water contamination. Oil waste, filters, other litter will be collected and disposed of properly. Equipment servicing and chemical/fuel storage will be limited to locations greater than 300-ft from sinkholes, fissures, or areas draining into known sinkholes, fissures, or other karst features.
		SSPC5 (26a, Solar, Economic Development only) - Section 26a permits and contracts associated with solar projects, economic development projects or land use projects include standards and conditions that include standard BMPs for sediment and contaminants as well as measures to avoid or minimize impacts to sensitive species or other resources consistent with applicable laws and Executive Orders.
		(02/2018), which includes gray bat (listed in 1976), Indiana bat (listed in 1967), northern long-eared bat eared bat (listed in 1979).
	checked Conservat	ion Measures
<ul><li>HIDE</li><li>UNHID</li></ul>	E	
		to Facilitate Clean Copy and Paste
<ul><li>HIDE</li></ul>	4 Columns 1 and 2	to Facilitate Clean Copy and Faste
O UNHID	E	
NOTES (add	ditional info from fiel	d review, explanation of no impact or removal of conservation measures).

#### **Project Review Form - TVA Bat Strategy** (06/2019)

project o	) Save completed form (Click File/Save As, name form as "ProjectLead_BatForm_CEC-or-ProjectIDNo_Date") in environmental documentation (e.g. CEC, Appendix to EA) AND send a copy of form to <u>batstrategy@tva.gov</u> sion of this form indicates that Project Lead/Applicant:					
	(name) is (or will be made) aware of the requirements below.					
• !	<ul> <li>Implementation of conservation measures identified in Table 4 is required to comply with TVA's Endangered Species Act programmatic bat consultation.</li> <li>TVA may conduct post-project monitoring to determine if conservation measures were effective in minimizing or avoiding impacts to federally listed bats.</li> </ul>					
For Use l	by Terrestrial Zoologist Only					
	strial Zoologist acknowledges that Project Lead/Contact (name)  Ashley Pilakowski has been informed of relevant conservation measures and/or provided a copy of this form.					
and t	rojects that require use of Take and/or contribution to TVA's Bat Conservation Fund, Terrestrial Zoologist acknowledges Project Lead/Contact has been informed that project will result in use of Incidental Take    Contribution to TVA's Conservation Fund upon completion of activity   unt entered should be \$0 if cleared in winter).					
	For Terrestrial Zoology Use Only. Finalize and Print to Noneditable PDF.					

## ATTACHMENT 2 AGENCY CORRESPONDENCE



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902

February 10, 2020

Mr. E. Patrick McIntyre, Jr. Executive Director and State Historic Preservation Officer Tennessee Historical Commission 2941 Lebanon Pike Nashville, Tennessee 37243-0442

Dear Mr. McIntyre:

TENNESSEE VALLEY AUTHORITY (TVA) INVESTPREP 37.7 ACRE CULTURAL RESOURCE SURVEY FOR A PROPOSED INDUSTRIAL DEVELOPMENT AT THE HUNT PROPERTY, JEFFERSON COUNTY, TENNESSEE (36.1322, -83.4695)

TVA proposes to provide matching funds (via TVA's InvestPrep program) to assist with site preparation related to a future industrial development at the Hunt Property, just northeast of Jefferson City, Tennessee (Figures 1-2). In 2019, the Industrial Development Board of Jefferson City purchased the site with funding assistance from US Department of Agriculture (USDA) via a Rural Economic Development Loan & Grant (REDLG) Program. The USDA completed an environmental assessment (EA) at the time of purchase, but did not undertake any associated cultural resource surveys. TVA's undertaking (providing funding) would not involve the USDA; TVA is the sole federal agency involved in this undertaking. TVA's funds would be used for .75 acres of tree clearing, the rough grading of 25 acres, and construction of an access road and storm water facilities. TVA determined the area of potential effects (APE) to be the area of proposed ground disturbance (37.7 acres) where physical effects could occur as well as areas within a half-mile radius of the project within which the industrial development would be visible where visual effects on aboveground [or, historic architectural] resources could occur (Figure 3).

To fulfill TVA's project obligations under Section 106 of the National Historic Preservation Act, TVA contracted with Cultural Resource Analysts, Inc. (CRA) to carry out a Phase I Archaeological survey, and an architectural resources survey of the 37.7-acre project footprint and the visual APE between December 2 and 12, 2019. The archaeological survey area consisted of the footprint of the Hunt Property, totaling approximately 15.3 ha (37.7 acres; 152,563.6 sq m) in size. The architectural survey addressed the project area and areas within a 0.5-mi radius of the project area located within the project's viewshed.

Please find two copies of the draft report entitled *Phase I Cultural Resource Survey for The Proposed Development at the Hunt Property, Jefferson County, Tennessee* 

Mr. E. Patrick McIntyre, Jr. Page 2 February 10, 2020

enclosed. The survey and writing of both reports were consistent with the *Secretary of Interior's Standards and Guidelines for Identification* (National Park Service [NPS](1983).

TVA has read the enclosed reports and agrees with the authors' findings and recommendations. The preliminary project background research found that the project footprint is completely within the core area and National Register boundaries of the U.S. Civil War Battle of Mossy Creek (fought Dec. 29, 1863) as defined by Update to the Civil War Sites Advisory Commission Report on the Nation's Civil War Battlefields (2009), published by the National Park Service (Figures 4-5). Smith (1999) defines a slightly smaller core battlefield boundary than the National Park Service (Figure 5). Although the battlefield was determined to be eligible for the National Register of Historic Places in 2009, under Criterion A with military significance, none of the battelfield had been identified previously as an archaeological site. The archaeological field survey identified the Civil War Battlefield of Mossy Creek as an archaeological site, for which the Tennessee Division of Archaeology assigned site number 40JE222. However, the trinomial designation is based completely on local artifact collections previously removed from the project footprint by local collectors that CRA interviewed. The archaeological survey which included metal-detection, recorded no artifacts associated with the battle and no other sites.

The architectural survey found only one historic property within the viewshed of the proposed undertaking and that would be the Mossy Creek Civil War Battlefield. Given that the landscape surrounding the project footprint has not changed significantly since the initial 2005-6 American Battlefield Protection Program survey that recorded it (based on aerial imagery), and given that the project footprint remains open land suggestive of the historic agricultural use of the property, CRA, Inc. recommends and TVA concurs, that the portion of battlefield within the project footprint remains eligible for the National Register of Historic Places under Criterion A. The change in land use and cumulative effects of industrial development would severely diminish the integrity of setting, association, and feeling of this portion of the battlefield, likely resulting in overall reduction of the National Register-eligible portion of the battlefield. Based on these investigations, TVA therefore finds that the proposed undertaking would result in adverse effects to the Mossy Creek Civil War Battlefield.

Pursuant to 36 CFR Part 800.3(f)(2), TVA is consulting with federally recognized Indian tribes regarding properties within the proposed project's APE that may be of religious and cultural significance to them and eligible for the NRHP.

Pursuant to §800.6(a)(1) TVA will notify the Advisory Council on Historic Preservation of the adverse effect finding, provide the enclosed documentation, and invite their participation.

Pursuant to 36 CFR Part 800.5(a) we are notifying you of TVA's finding of adverse effects to historic properties, providing the documentation specified in § 800.11(e); and inviting you to review the finding. TVA proposes to develop a Memorandum of

Mr. E. Patrick McIntyre, Jr. Page 3 February 10, 2020

Agreement (MOA) for the resolution of the adverse effects. We are seeking your agreement with TVA's eligibility determinations, finding that the undertaking as currently planned will have adverse effects to site 40JE222, and proposal to develop an MOA.

Please contact Kerry Nichols by telephone, (865) 632-2458 or by email, <a href="mailto:kdnichols0@tva.gov">kdnichols0@tva.gov</a> with your comments.

Sincerely,

Clinton E. Jones

Manager

**Cultural Compliance** 

KDN:ABM Enclosures cc (Enclosures):

> Ms. Jennifer Barnett Tennessee Division of Archaeology 1216 Foster Avenue, Cole Bldg. #3 Nashville, Tennessee 37210

#### **References Cited**

2009 Update to the Civil War Sites Advisory Commission Report on the Nation's Civil War Battlefields. United States Department of the Interior, National Park Service.

Smith, David

1999 Campaign to Nowhere: The Results of General Longstreet's Move into Upper East Tennessee. East Tennessee Printing Company, Rogersville, TN.

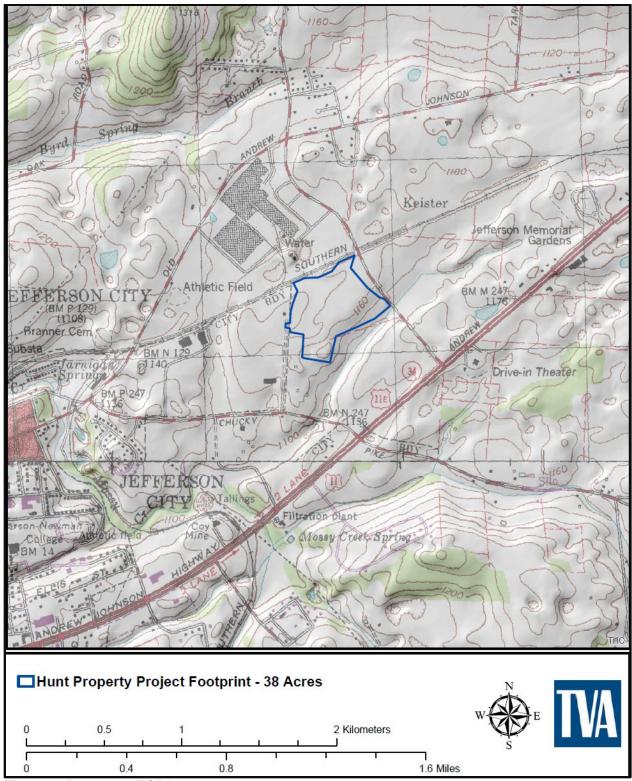


Figure 1. Basemap: ESRI.

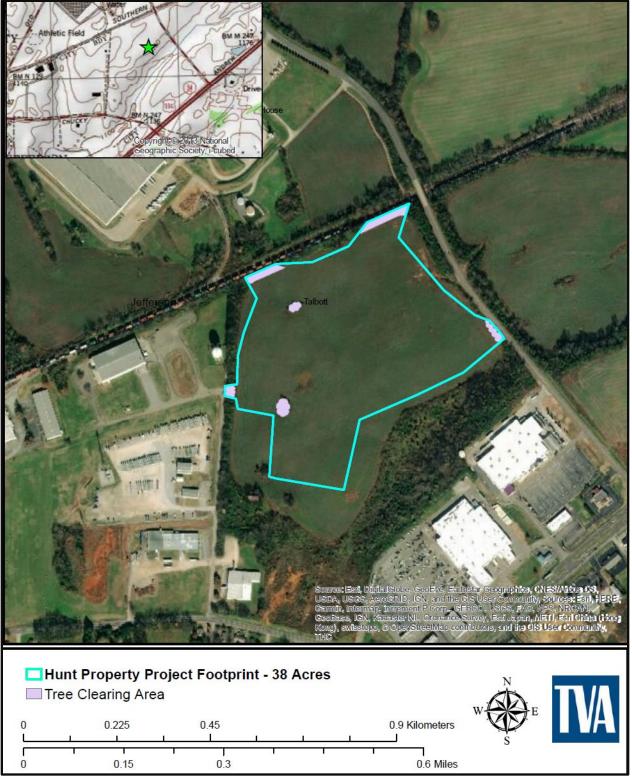


Figure 2. Basemap: ESRI.

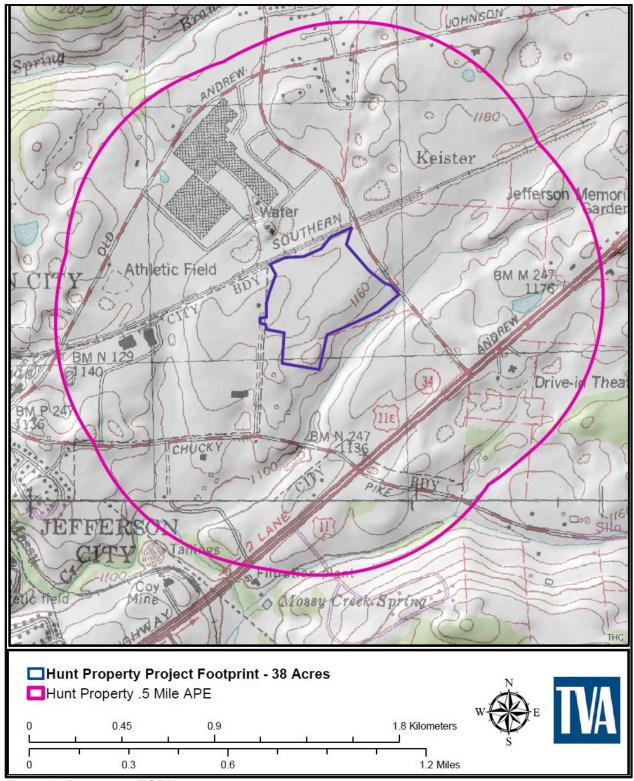


Figure 3. Basemap: ESRI.

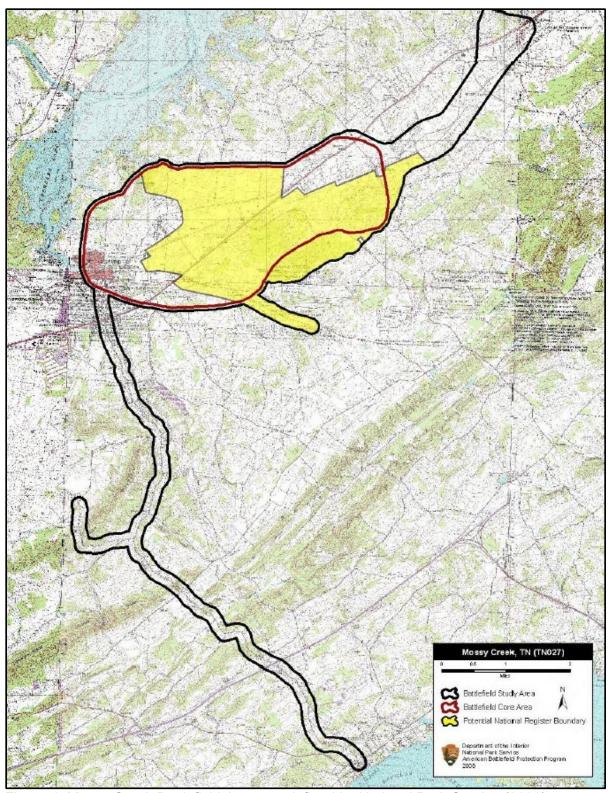


Figure 4. Mossy Creek Battlefield Areas as defined by National Park Service (2009).

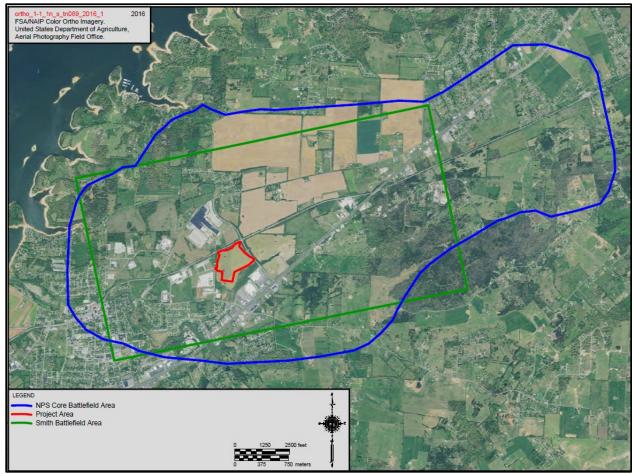


Figure 5. NPS and Smith (1999) Battlefield Areas: CRA Inc.



#### TENNESSEE HISTORICAL COMMISSION

#### STATE HISTORIC PRESERVATION OFFICE 2941 LEBANON PIKE NASHVILLE, TENNESSEE 37243-0442 OFFICE: (615) 532-1550

www.tnhistoricalcommission.org

February 20, 2020

Mr. Clinton E. Jones Tennessee Valley Authority Biological and Cultural Compliance 400 West Summit Hill Drive Knoxville, TN 37902

RE: TVA / Tennessee Valley Authority, Industrial Development at the Hunt Property (36.1322, -83.4695), Jefferson City, Jefferson County, TN

Dear Mr. Jones:

In response to your request, we have reviewed the documents submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicants for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739).

Considering available information, we concur that the project as currently proposed will adversely affect the National Register of Historic Places eligible Mossy Creek Civil War Battlefield (40JE222). You should continue to consult with our office to resolve the adverse effect. Please direct questions and comments to Claire Meyer (615 770-1099). We appreciate your cooperation.

Mikitya !

Sincerely,

E. Patrick McIntyre, Jr. Executive Director and

State Historic Preservation Officer

EPM/jmb



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902

May 11, 2020

Mr. E. Patrick McIntyre, Jr.
Executive Director
and State Historic Preservation Officer
Tennessee Historical Commission
2941 Lebanon Pike
Nashville, Tennessee 37243-0442

Dear Mr. McIntyre:

TENNESSEE VALLEY AUTHORITY (TVA) INVESTPREP EXECUTED MEMORANDUM OF AGREEMENT (MOA) BETWEEN THE TENNESSEE VALLEY AUTHORITY AND THE TENNESSEE STATE HISTORIC PRESERVATION OFFICER REGARDING TREE CLEARING, ROUGH GRADING AND CONSTRUCTION OF AN ACCESS ROAD AND STORM WATER FACILITIES AT THE HUNT PROPERTY, JEFFERSON COUNTY, TENNESSEE THE HUNT PROPERTY, JEFFERSON COUNTY, TENNESSEE (36.1322, -83.4695)

We received your signature of agreement on the above mentioned MOA on April 2, 2020. Please see an attached copy of the final executed MOA with all signature pages, for your files.

Please contact Kerry Nichols by telephone, (865) 632-2458 or by email, <a href="mailto:kdnichols0@tva.gov">kdnichols0@tva.gov</a> with any comments or questions.

Sincerely,

Clinton E. Jones,

Manager

**Cultural Compliance** 

KDN:ABM Enclosures

cc (Enclosures):

Ms. Jennifer Barnett Tennessee Division of Archaeology 1216 Foster Avenue, Cole Bldg. #3 Nashville, Tennessee 37210

### MEMORANDUM OF AGREEMENT BETWEEN THE TENNESSEE VALLEY AUTHORITY AND

# THE TENNESSEE STATE HISTORIC PRESERVATION OFFICER REGARDING TREE CLEARING, ROUGH GRADING AND CONSTRUCTION OF AN ACCESS ROAD AND STORM WATER FACILITIES AT THE HUNT PROPERTY, JEFFERSON COUNTY, TENNESSEE

**WHEREAS**, the Tennessee Valley Authority (TVA) proposes to use TVA funds to assist the Industrial Development Board of Jefferson City, Tennessee with tree clearing of 1.1 acres, the rough grading of 25 acres and construction of an access road and storm water facilities at the Hunt Property, just northeast of Jefferson City, TN in preparation for a future industrial site (Undertaking); and

**WHEREAS**, the project footprint is completely within the core area and National Register boundaries of the U.S. Civil War Battle of Mossy Creek (fought Dec. 29, 1863) as defined by *Update to the Civil War Sites Advisory Commission Report on the Nation's Civil War Battlefields* (2009), published by the National Park Service; and

**WHEREAS**, the Mossy Creek Civil War battlefield was determined to be eligible for the National Register of Historic Places by the National Park Service in 2009, under Criterion A with military significance; and

**WHEREAS**, TVA has defined the Undertaking's area of potential effects (APE) to be the area of proposed ground disturbance (37.7 acres), where physical effects could occur, as well as areas within a half-mile radius of the project within which the industrial development would be visible, where visual effects on historic architectural resources could occur; and

**WHEREAS**, TVA has conducted identification efforts in the APE in consultation with the Tennessee State Historic Preservation Officer (TN SHPO), and TVA and TN SHPO agree that the APE contains one archaeological site that is eligible for inclusion in the National Register of Historic Places under criterion A, site 40JE222, the Mossy Creek Civil War Battlefield; and

WHEREAS, TVA has determined that the Undertaking will have an adverse effect on the National Register eligible portion of the Mossy Creek Battlefield, has consulted with the TN SHPO pursuant to 36 CFR Part 800, the regulations implementing Section 106 of the National Historic Preservation Act (NHPA) (54 U.S.C. § 306108), and TN SHPO has agreed with this effect finding; and

WHEREAS, in accordance with 36 CFR § 800.6(a)(1), TVA has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination by providing documentation specified in 36 CFR § 800.11 (e), and the ACHP has chosen not to participate in the consultation pursuant to 36 CFR § 800.6(a)(1)(iii); and

**WHEREAS**, TVA has identified and consulted with three non-signatory consulting parties each with a unique historical interest in the Hunt Property due to its status as an integral part of the American Civil War battlefield of Mossy Creek. These parties are listed as Tennessee Civil War Preservation Association, Lakeway Civil War Preservation Association, and East Tennessee Historical Society.

**NOW, THEREFORE**, TVA and the TN SHPO agree that the Undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the Undertaking on historic properties.

#### **STIPULATIONS**

TVA shall ensure that the following measures are carried out:

#### I. INTERPRETIVE SIGNAGE

- A. TVA shall develop a National Park Service (NPS)-style interpretive panel set upon a cantilevered base to be sited at a location accessible by the public.
- B. The interpretive panel will include:
  - a. Relevant historic photographs and historic maps of the battlefield.
  - b. Discussion of the battle's history and significance.
  - c. An explanation of what events occurred within the project footprint during the battle.
- C. TVA shall provide the TN SHPO a digital copy of the final interpretive panel design for review to ensure Stipulations I B. 1-3 are met prior to production.

#### II. MONITORING AND REPORTING

Each year, following the execution of this MOA until it expires or is terminated, TVA shall provide SHPO and the ACHP a summary report detailing work undertaken pursuant to its terms. Such report shall include any scheduling changes proposed, any problems encountered, and any disputes and objections received in TVA's efforts to carry out the terms of this MOA.

#### **III. DURATION**

This MOA will expire if its terms are not carried out within three (3) years from the date of its execution. Prior to such time, TVA may consult with the other signatories to reconsider the terms of the MOA and amend it in accordance with Stipulation V below.

#### IV. DISPUTE RESOLUTION

Should TN SHPO object at any time in regard to any actions proposed under this MOA or to the manner in which the terms of the MOA are implemented, TVA shall consult with such party to resolve the objection. If TVA determines that such objection cannot be resolved, TVA will:

- A. Forward all documentation relevant to the dispute, including TVA's proposed resolution, to the ACHP. The ACHP shall provide TVA with its advice on the resolution of the objection within 30 days of receiving adequate documentation. Prior to reaching a final decision on the dispute, TVA shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP and the TN SHPO, and provide them a copy of this written response. TVA will then proceed according to its final decision.
- B. If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, TVA may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, TVA shall prepare a written response that takes into account any timely comments regarding the dispute from the TN SHPO, and provide the TN SHPO and the ACHP with a copy of such written response.

C. TVA's responsibility to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute remain unchanged.

#### V. AMENDMENTS

This MOA may be amended when such an amendment is agreed to in writing by both signatories. The amendment will be effective on the date a copy signed by both signatories is filed with the ACHP.

#### VI. TERMINATION

If either signatory to this MOA determines that its terms will not or cannot be carried out, that party shall immediately consult with the other signatory to attempt to develop an amendment per Stipulation V, above. If within thirty (30) days (or another time period agreed to by both signatories) an amendment cannot be reached, either signatory may terminate the MOA upon written notification to other signatory.

Once the MOA is terminated, and prior to work continuing on the undertaking, TVA must either (a) execute an MOA pursuant to 36 CFR § 800.6 or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR § 800.7. TVA shall notify the TN SHPO as to the course of action it will pursue.

**EXECUTION** of this Agreement by TVA and the TN SHPO and implementation of its terms evidence that TVA has taken into account the effects of this undertaking on historic properties and afforded the ACHP an opportunity to comment. TVA will submit a copy of the executed MOA, along with the documentation that is specified in 36 CFR § 800.11 (f), to the ACHP. This MOA shall govern the Undertaking and all of its parts.

#### **SIGNATORIES:**

**Tennessee Valley Authority** 

Deputy Federal Preservation Officer

#### **Tennessee Historical Commission**

E. Patrick Mintyre, Jr. <u>Date</u> 04/02/2020\_\_\_\_\_

Mr. E. Patrick McIntyre, Jr. Executive Director and State Historic Preservation Officer