

ClinchRiverESPHFNPEm Resource

From: Fetter, Allen
Sent: Tuesday, January 10, 2017 6:18 PM
To: dpstout@tva.gov; pshastings (pshastings@tva.gov); jnperry (jnperry@tva.gov)
Cc: Sutton, Mallecia; Vokoun, Patricia; Dozier, Tamsen
Subject: Attached documents put in the mail to TVA today. Will be publicly-available on 1/12/17
Attachments: FRN - TVA ESPA acceptance_ML16356A213.pdf; TVA Clinch River ESPA acceptance letter_ML16355A162.pdf

All,

Attached documents put in the mail to TVA today. Will be publicly-available on 1/12/17. Looks like I don't have Joe Shea's email in my address book, so please forward.

Thanks,
Allen

Hearing Identifier: ClinchRiver_ESP_HF_NonPublic
Email Number: 414

Mail Envelope Properties (Allen.Fetter@nrc.gov20170110181800)

Subject: Attached documents put in the mail to TVA today. Will be publicly-available on 1/12/17
Sent Date: 1/10/2017 6:18:01 PM
Received Date: 1/10/2017 6:18:00 PM
From: Fetter, Allen

Created By: Allen.Fetter@nrc.gov

Recipients:

"Sutton, Mallecia" <Mallecia.Sutton@nrc.gov>
Tracking Status: None
"Vokoun, Patricia" <Patricia.Vokoun@nrc.gov>
Tracking Status: None
"Dozier, Tamsen" <Tamsen.Dozier@nrc.gov>
Tracking Status: None
"dpstout@tva.gov" <dpstout@tva.gov>
Tracking Status: None
"pshastings (pshastings@tva.gov)" <pshastings@tva.gov>
Tracking Status: None
"jnperry (jnperry@tva.gov)" <jnperry@tva.gov>
Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	197	1/10/2017 6:18:00 PM
FRN - TVA ESPA acceptance_ML16356A213.pdf	145983	
TVA Clinch River ESPA acceptance letter_ML16355A162.pdf	104439	

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

NUCLEAR REGULATORY COMMISSION

[Docket No. 52-047; NRC-2016-0119]

Tennessee Valley Authority

Clinch River Nuclear Site

AGENCY: Nuclear Regulatory Commission.

ACTION: Early site permit application; acceptance for docketing.

SUMMARY: On May 12, 2016, the Tennessee Valley Authority (TVA) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for an early site permit (ESP) for the Clinch River Nuclear Site located in Oak Ridge, Tennessee. A notice of receipt and availability of this application was published in the *Federal Register* on June 23, 2016. The TVA also provided supplemental information in support of the application to the NRC.

DATES: The NRC received the ESP application on May 12, 2016, and docketed it on December 30, 2016.

ADDRESSES: Please refer to Docket ID **NRC-2016-0119** when contacting the NRC about the availability of information regarding this document. You may obtain publicly available information related to this document using any of the following methods:

- **Federal Rulemaking Web site:** Go to <http://www.regulations.gov> and search for Docket ID **NRC-2016-0119**. Address questions about NRC dockets to Carol Gallagher;

telephone: 301-415-3463; e-mail: Carol.Gallagher@nrc.gov. For technical questions, contact the individual listed in the “FOR FURTHER INFORMATION CONTACT” section of this document.

- **NRC’s Agencywide Documents Access and Management System (ADAMS):**

You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select “[ADAMS Public Documents](#),” and then select “[Begin Web-based ADAMS Search](#).” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdresource@nrc.gov. For the convenience of the reader, the ADAMS accession numbers are provided in a table in the “Availability of Documents” section of this document.

- **NRC’s PDR:** You may examine and purchase copies of public documents at the NRC’s PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, MD 20852.

FOR FURTHER INFORMATION CONTACT: Allen Fetter, Office of New Reactors, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, telephone: 301-415-8556, email: Allen.Fetter@nrc.gov.

SUPPLEMENTARY INFORMATION

I. Introduction

Pursuant to Section 103 of the Atomic Energy Act of 1954, as amended (AEA), and part 52 of title 10 of the *Code of Federal Regulations* (10 CFR), “Licenses, Certifications, and

Approvals for Nuclear Power Plants,” the applicant, TVA, filed an application with the NRC for an ESP in Oak Ridge, Tennessee. In accordance with subpart A of 10 CFR part 52, an applicant may seek an ESP separate from the filing of an application for a construction permit (CP) or combined license (COL) for a nuclear power facility. The ESP process allows resolution of issues relating to siting. At any time during the period of an ESP (up to 20 years), the permit holder may reference the permit in an application for a CP or COL.

The NRC staff has determined that TVA has submitted information in accordance with 10 CFR part 2, “Agency Rules of Practice and Procedure” and 10 CFR part 52, “Licenses, Certifications, and Approvals for Nuclear Power Plants,” that is sufficiently complete and acceptable for docketing. The docket number for this application is “52-047.”

II. Further Information

The NRC staff will perform a detailed technical review of the application, and docketing of the ESP application does not preclude the NRC from requesting additional information from the applicant as the review proceeds, nor does it predict whether the Commission will grant or deny the application. The Commission will receive a report on the application from the Advisory Committee on Reactor Safeguards in accordance with 10 CFR 52.23. An Atomic Safety and Licensing Board Panel will conduct a hearing in accordance with 10 CFR 52.21 and will make an initial decision on the issuance of the permit for the Commission. If the Commission then finds that the application meets the applicable standards of the AEA and the Commission’s regulations, and that required notifications to other agencies and bodies have been made, the Commission will issue an ESP, in the form and containing conditions and limitations that the Commission finds appropriate and necessary.

In accordance with 10 CFR part 51, the Commission will also prepare an environmental impact statement for the proposed action. Pursuant to 10 CFR 51.26, and as part of the environmental scoping process, the staff intends to hold a public scoping meeting. Detailed information regarding this meeting will be included in a future *Federal Register* notice.

Finally, the Commission will announce, in a *Federal Register* notice, the opportunity to petition for leave to intervene in the hearing required for this application by 10 CFR 52.21.

III. Availability of Documents

The following table indicates the ADAMS accession numbers or Web site links where application documents and supplemental information are available to interested persons.

Document title	ADAMS Accession No(s). or Web site
Application Transmittal letter for ESP for Clinch River Nuclear Site	ML16139A752.
Clinch River Nuclear Site Early Site Permit Application, Part 1, Administrative Information	ML16144A033.
Clinch River Nuclear Site Early Site Permit Application, Part 2, Site Safety Analysis Report	ML16144A074.
Clinch River Nuclear Site Early Site Permit Application, Part 3, Environmental Report	ML16144A145.
Clinch River Nuclear Site Early Site Permit Application, Part 5, Emergency Plan	ML16144A150.
Clinch River Nuclear Site Early Site Permit Application, Part 6, Exemptions and Departures	ML16144A151.
Early Site Permit Application—Clinch River Nuclear Site Web site	http://www.nrc.gov/reactors/new-reactors/esp/clinch-river.html .
Calculation Input and Output Files in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16180A307.

Siting Study in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16188A075.
Hydrology Information and Calculation Input and Output Files in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16216A115, ML16280A065, ML16280A066, ML16344A085.
Atmospheric Dispersion Calculation Input and Output Files in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16216A109.
Environmental Alternatives Supplemental Items in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16252A182.
Geologic and Geotechnical Information in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16302A176.
Vibratory Ground Motion Information in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16302A445.
Information on Cumulative Radiological Health Impacts in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16340A259.
Meteorological Information in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16340A256.
Information on Radiation Protection and Accident Consequences in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16340A258.
Information on Alternate Cooling Water Systems in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16344A061.
Information on Terrestrial Ecology in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16348A552.
Information on Stability of Subsurface Materials and Foundation in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16350A420.
Site Selection Information in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16350A429.

Aquatic Ecology Information in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16356A485.
Environmental Protection Plan Information in Support of the Clinch River Nuclear Site Early Site Permit Application	ML16363A378.

The NRC will post other publically available materials related to this application in ADAMS and on the NRC's public Web site at <http://www.nrc.gov/reactors/new-reactors/esp/clinch-river.html>.

Dated at Rockville, Maryland, this 5th day of January 2017.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

Francis M. Akstulewicz, Director,
Division of New Reactor Licensing,
Office of New Reactors.

January 5, 2016

Mr. J. W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Marker Street, LP 1G-C
Chattanooga, TN 37402-2801

SUBJECT: ACCEPTANCE REVIEW RESULTS FOR AN EARLY SITE PERMIT
APPLICATION FOR CLINCH RIVER NUCLEAR SITE

Dear Mr. Shea:

By letter dated May 12, 2016, Tennessee Valley Authority (TVA) submitted an early site permit (ESP) application to the U.S. Nuclear Regulatory Commission (NRC) for the Clinch River Nuclear (CRN) Site located in Oak Ridge, Tennessee, in accordance with the requirements contained in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants," Subpart A, "Early Site Permits." By letter dated June 17, 2016, the staff acknowledged the receipt of the application and stated its intent to conduct an acceptance review, and a *Federal Register* (FR) Notice of availability of the application was published on June 23, 2016 (81 FR 40929). Consistent with subsequent clarification calls between TVA and NRC, and your letter dated August 11, 2016, TVA provided supplemental information by letters dated June 23, July 6, July 28, September 30, October 21, October 28, December 2, December 8, December 12 and December 15, 2016, in support of the application.

Consistent with the requirements of 10 CFR 2.101, "Filing of application," 10 CFR 52.16, "Contents of applications; general information," and 10 CFR 52.17, "Contents of applications; technical information," the NRC staff completed an acceptance review to determine if the ESP application for the CRN Site, as supplemented, contains sufficient technical information in scope and depth to allow the NRC staff to conduct its detailed technical review and complete it within a predictable timeframe. This letter informs you that the staff has determined that your application, as supplemented, is acceptable for docketing. The docket number for this application is 52-047.

The staff will be developing a full review schedule with public milestones, and NRC will send a schedule letter to you by April 4, 2017. As your application has been formally docketed, technical review of it has already been initiated.

During the detailed technical review of the application, the staff will utilize requests for additional information, site audits, and other similar processes to communicate with you in order to meet any information needs identified.

J.W. Shea

- 2 -

The enclosed notice of acceptance for docketing has been forwarded to the Office of the *Federal Register*. In accordance with the provisions of 10 CFR 2.104, a separate notice will be published regarding the opportunity to file a petition for leave to intervene in the hearing required for this application.

If you have any questions or comments concerning this matter, I can be reached at via email Allen.Fetter@nrc.gov, or telephone: 301-415-8556. My co-Project Manager for the safety review is Mallecia Sutton (Mallecia.Sutton@nrc.gov), 301-415-0673). Questions that are specific to the environmental review may be directed to Tamsen Dozier (Tamsen.Dozier@nrc.gov), 301-415-2272) or Patricia Vokoun (Patricia.Vokoun@nrc.gov), 301-415-3470).

Sincerely,

/RA/

Allen H. Fetter, Senior Project Manager
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

Docket No.: 52-047

Enclosure: As stated

cc: w/encl.: See next page

The enclosed notice of acceptance for docketing has been forwarded to the Office of the *Federal Register*. In accordance with the provisions of 10 CFR 2.104, a separate notice will be published regarding the opportunity to file a petition for leave to intervene in the hearing required for this application.

If you have any questions or comments concerning this matter, I can be reached at via email Allen.Fetter@nrc.gov, or telephone: 301-415-8556. My co-Project Manager for the safety review is Mallecia Sutton (Mallecia.Sutton@nrc.gov, 301-415-0673). Questions that are specific to the environmental review may be directed to Tamsen Dozier (Tamsen.Dozier@nrc.gov, 301-415-2272) or Patricia Vokoun (Patricia.Vokoun@nrc.gov, 301-415-3470).

Sincerely,

/RA/

Allen H. Fetter, Senior Project Manager
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

Docket No.: 52-047

Enclosure: As stated

cc: w/encl.: See next page

DISTRIBUTION:

PUBLIC			
EPB R/F	AFetter, NRO	MSutton	TDozier, NRO
PVokoun, NRO	KErwin, NRO	MDudek, NRO	LBurkhardt, NRO
BHarvey, NRO	CCook, NRO	AWilson, OGC	AHove, OGC
RidsOgcMailCenter	RidsNroDnrl	RidsNroDsea	

ADAMS Accession Nos: ML16355A162 (LTR)
ML16356A213 (FRN)
ML16356A226 (PKG) *via email

NRO-002

OFFICE	NRO/DNRL/LB3:PM	NRO/DNRL/LB3:PM	NRO/DNRL/LB3:LA	NRO/DNRL/LB3:BC
NAME	TDozier/PVokoun	AFetter/MSutton	SGreen	JDonoghue
DATE	12/23/2016*	12/21/2016	12/20/2016*	01/03/2017
OFFICE	NRO/DSEA:DD	OGC	NRO/DNRL:DDD	NRO/DNRL:DD
NAME	SFlanders	AWilson/AHove	ABradford	FAkstulewicz
DATE	01/5/2017	12/22/2016*	01/03/2017	01/04/2017

OFFICIAL RECORD COPY

Clinch River Mailing List
cc:

(Revised 10/03/2016)

Mr. Lionel Batty
Nuclear Business Team
Graftech
12300 Snow Road
Parma, OH 44130

Mr. Robert E. Sweeney
IBEX ESI
4641 Montgomery Avenue
Suite 350
Bethesda, MD 20814

Russell Bell
Nuclear Energy Institute
1776 I Street, NW
Suite 400
Washington, DC 20006-3708

Mr. Brendan Hoffman
Research Associate on Nuclear Energy
Public Citizens Critical Mass Energy and
Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Mr. Dobie McArthur
Director, Washington Operations
General Atomics
1899 Pennsylvania Avenue, NW
Suite 300
Washington, DC 20006

Mr. David Repka
Winston & Strawn LLP
1700 K. Street, NW
Washington, DC 20006-3817

Carlos Sisco
Senior Paralegal
Winston & Strawn LLP
1700 K Street NW
Washington, DC 20006

Mr. Daniel P. Stout
Senior Manager
SMR Technology
Tennessee Valley Authority
1201 P. St., NW Suite 1100
Washington, DC 20004-1218

Clinch River Mailing List

Email

Alan.Levin@areva.com (Alan Levin)
asi@ornl.gov (Anita Benn)
awc@nei.org (Anne W. Cottingham)
badwan@lanl.gov (Faris Badwan)
bevans@enercon.com (Bob Evans)
bruce.mcdowell@pnnl.gov (Bruce McDowell)
cee@nei.org
charles.bagnal@ge.com (Charles Bagnal)
chm3@aol.com (Clyde Morton)
collinlj@westinghouse.com (Leslie Collins)
cposlusny@babcock.com (Chester Poslusny)
curtisslaw@gmail.com (Jim Curtiss)
d.weaver@holtec.com (Doug Weaver)
david.hinds@ge.com (David Hinds)
david.lewis@pillsburylaw.com (David Lewis)
dlfulton@southernco.com (Dale Fulton)
don.tormey@iub.iowa.gov
dsafer@comcast.net (Don Safer)
ed.burns@earthlink.net (Ed Burns)
elyman@ucsusa.org (Ed Lyman)
erg-xl@cox.net (Eddie R. Grant)
ewallace@nuscalepower.com (Ed Wallace)
exa@nei.org (Ellen Anderson)
F.Shahrokhi@AREVA.Com (Farshid Shahrokhi)
frank.bodine@oca.iowa.gov (Frank Bodine)
gmorg50@hotmail.com (Garry Morgan)
hickste@earthlink.net (Thomas Hicks)
jahalfinger@babcock.com (Jeff Halfinger)
james1.beard@ge.com (James Beard)
jason.parker@pillsburylaw.com (Jason Parker)
jcsaldar@bechtel.com (James Saldarini)
jerald.head@ge.com (Jerald Head)
Jim.Kinsey@inl.gov (James Kinsey)
jim.sundermeyer@iub.iowa.gov
JNR@NuScalePower.com (Jose N. Reyes)
jrappe@nuscalepower.com (Jodi Rappe)
kerri.johannsen@iub.iowa.gov
klingscl@westinghouse.com (Charles Kling)
kouhestani@msn.com (Amir Kouhestani)

Clinch River Mailing List

KSutton@morganlewis.com (Kathryn M. Sutton)
Kwelter@NuScalePower.com (Kent Welter)
larry.shi@oca.iowa.gov (Larry Shi)
larry.stevens@iub.iowa.gov
laura.andrews@CNSC-CCSN.GC.CA (Laura Andrews)
lchandler@morganlewis.com (Lawrence J. Chandler)
lgorenflo@gmail.com (L. Gorenflo)
libby.jacobs@iub.iowa.gov
luther.jones@dzatlantic.com (Luther B. Jones)
mack.thompson@iub.iowa.gov
mark.a.giles@dom.com (Mark Giles)
mark.holbrook@inl.gov (Mark Holbrook)
mark@npva.net
martha.shields@nuclear.energy.gov (Martha Shields)
murawski@newsobserver.com (John Murawski)
nanako@wcore.com (Nanako Hisamichi)
parveen.baig@iub.iowa.gov
patriciaL.campbell@ge.com (Patricia L. Campbell)
Paul@beyondnuclear.org (Paul Gunter)
PLorenzini@NuScalePower.com (Paul Lorenzini)
poorewpiil@ornl.gov (Willis P. Poore III)
pshastings@generationmpower.com (Peter Hastings)
rbarrett@astminc.com (Richard Barrett)
ronald.polle@oca.iowa.gov
RSnuggerud@NuScalePower.com (Ross Snuggerud)
Sandra@sandrakgoss.com (Sandra Goss)
sara@cleanenergy.org (Sara Barczak)
sfrantz@morganlewis.com (Stephen P. Frantz)
shobbs@enercon.com (Sam Hobbs)
SiteDCC-mpower@babcock.com (Document Control)
smirsky@nuscalepower.com (Steve Mirsky)
smsloan@babcock.com (Sandra Sloan)
spellmandj@ornl.gov (Donald J. Spellman)
spope@nuscalepowr.com (Steve Pope)
stephan.moen@ge.com (Stephan Moen)
t.sensue@holtec.com (Terry Sensue)
tfeigenbaum@generationmpower.com (Ted Feigenbaum)
timothy.beville@nuclear.energy.gov (Timothy Beville)
TomClements329@cs.com (Tom Clements)
trsmith@winston.com (Tyson Smith)
Vanessa.quinn@dhs.gov (Vanessa Quinn)
whorin@winston.com (W. Horin)