



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

April 9, 2018

Mr. Paul J. Bembia, Director  
West Valley Site Management Program  
New York State Energy Research and  
Development Authority  
9030-B Route 219  
West Valley, NY 14171-9500

SUBJECT: FINAL TECHNICAL EVALUATION OF THE RADIOLOGICAL EVALUATION OF  
AREAS OF INTEREST OFF-SITE FROM THE WESTERN NEW YORK  
NUCLEAR SERVICE CENTER (DOCKET 50-201, CSF-1)

Dear Mr. Bembia:

By letters dated, August 22, November 18, and December 14, 2016 (Agencywide Documents Access and Management System [ADAMS] Accession Nos. ML16293A155 [Pkg.], ML17006A161 [Pkg.], and ML17006A156 [Pkg.], respectively), the New York State Energy Research and Development Authority (NYSERDA) submitted its assessment, titled, "Radiological Survey and Dose Assessment Report for the Western New York Nuclear Service Center and Off-Site Areas in Follow Up to Aerial Gamma Radiation Survey, Rev. 1." This submittal assesses the associated risk from the radioactivity of five areas located off-site of the Western New York Nuclear Service Center (WNYNSC) that were shown to have above background radioactivity, as identified in the 2014 Aerial Radiological Survey (ADAMS Accession No. ML16293A133). NYSEDA designates these five areas, as Areas 1, 2, 3, 4 and 5, in its, "Field Sampling and Dose Assessment Plan for the WNYNSC in Follow Up to the Aerial Gamma Radiation Survey Conducted in 2014", Revision 0, dated October 2015 (ADAMS Accession No. ML16293A140).

On March 12, 2018, the U.S. Nuclear Regulatory Commission (NRC) transmitted its Technical Evaluation Report (TER) of NYSEDA's submittal to NYSEDA and indicated that the TER would be made publicly available sometime after the NRC met with the Seneca Nation of Indians Tribal Council on March 22, 2018. The staff is revising the TER to address NYSEDA's use of non-decay corrected values for certain West Valley Demonstration Project (WVDP) Phase I, Decommissioning Plan (DP), Rev. 2, (ADAMS Accession No. ML100040393) derived concentration guidelines levels (DCGLs), one of six methods that NYSEDA used to estimate dose. This revision did not affect the staff's overall TER conclusions. The revised TER is enclosed (ADAMS Accession No. ML18087A665) and is publicly available in ADAMS.

NRC staff's conclusion is consistent with NYSEDA's conclusion that the expected risk from off-site residual radioactivity in the areas of interest is low. The resulting dose in each area of interest sampled is expected to be less than unrestricted use limits found in Title 10 of the Code

of *Federal Regulations* (10 CFR) 20.1402. The staff's conclusion is based on the review of NYSERDA's submittal and the staff's own independent calculations and analysis.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions, please contact Ms. Amy Snyder, Senior Project Manager. She can be reached at (301) 415-6822 or [Amy.Snyder@nrc.gov](mailto:Amy.Snyder@nrc.gov).

Sincerely,

/RA/

Stephen Koenick, Chief  
Materials Decommissioning Branch  
Division of Decommissioning, Uranium Recovery,  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 050-00201  
License No. CSF-1

cc: w/enclosure:  
B. Bower, DOE-WV  
A. Iglesias, EPA  
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D. Samson, NYSDOH  
President Gates, SNI

FINAL TECHNICAL EVALUATION OF THE RADIOLOGICAL EVALUATION OF AREAS OF INTEREST OFF-SITE FROM THE WESTERN NEW YORK NUCLEAR SERVICE CENTER (DOCKET 50-201, CSF-1), DATED APRIL 9, 2018

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<b>ADAMS Accession No.: ML18087A663 (Pkg)</b>		<b>ML18087A666 (Ltr)</b>		<b>ML18087A665 (Rpt)</b>	
<b>OFC</b>	DUWP	DUWP	DUWP	DUWP	OGC
<b>NAME</b>	ASnyder	CHolston	S.Koenick	C.McKenney	SClark
<b>DATE</b>	3/27/18	4/5/18	4/5/18	4/5/18 SKoenick for	4/4/18
<b>OFC</b>	DUWP				
<b>NAME</b>	SKoenick				
<b>DATE</b>	4/9/18				

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