



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

June 13, 2022

Ms. Camille Zozula, Manager
Infrastructure & Facilities Licensing
Westinghouse Electric Company
1000 Westinghouse Drive
Building 1, Suite 165
Cranberry Township, PA 16066

SUBJECT: FINAL SAFETY EVALUATION FOR WCAP-18482-P/WCAP-18482-NP,
REVISION 0, "WESTINGHOUSE ADVANCED DOPED PELLET TECHNOLOGY
(ADOPT™) FUEL" (EPID: L-2020-TOP-0025)

Dear Ms. Zozula,

By letter dated May 8, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20132A014), Westinghouse Electric Company (Westinghouse) submitted Topical Report (TR) WCAP-18482-P/WCAP-18482-NP, Revision 0, "Westinghouse Advanced Doped Pellet Technology (ADOPT™) Fuel." By email dated March 8, 2022, the NRC staff issued its draft safety evaluation (SE) (ADAMS Accession No. ML22005A063).

Westinghouse provided comments on the draft SE by letter dated April 5, 2022 (ADAMS Accession No. ML22098A059). Non-proprietary copies of the comments have been placed in the NRC Public Document Room and are available in ADAMS under Accession No. ML22098A061.

The NRC staff has found the TR acceptable for referencing in licensing applications for nuclear power plants to the extent specified and under the limitations delineated in the TR and in the NRC final SE. The final SE defines the basis for our acceptance of the TR.

Our acceptance applies only to material provided in the subject TR. We do not intend to repeat our review of the accepted material described in the TR. When the TR appears as a reference in license applications, our review will ensure that the material presented applies to the specific plant involved. License amendment requests that deviate from this TR will be subject to a plant-specific review in accordance with applicable review standards.

NOTICE: Enclosure 2 to this letter contains Proprietary Information. Upon separation from Enclosure 2, this letter is DECONTROLLED.

In accordance with the guidance provided on the NRC website, we request that Westinghouse publish accepted versions of the proprietary and non-proprietary TR within three months of receipt of the date of this email. The accepted proprietary version shall incorporate this letter and the proprietary final SE (Enclosure 2), and the accepted non-proprietary version shall incorporate this email and the non-proprietary final SE (Enclosure 1) after the title page. Also, the accepted versions must contain historical review information, including NRC requests for additional information (RAIs) and your responses after the title page. The accepted version shall include an "-A" (designating accepted) following the TR identification symbol.

As an alternative to including the RAIs and RAI responses behind the title page, if changes to the TRs were provided to the NRC staff to support the resolution of RAI responses, and the NRC staff reviewed and approved those changes as described in the RAI responses, there are two ways that the accepted version can capture the RAIs:

1. The RAIs and RAI responses can be included as an Appendix to the accepted version.
2. The RAIs and RAI responses can be captured in the form of a table (inserted after the final SE) which summarizes the changes as shown in the approved version of the TR. The table should reference the specific RAIs and RAI responses which resulted in any changes, as shown in the accepted version of the TR.

If future changes to the NRC's regulatory requirements affect the acceptability of this TR, Westinghouse will be expected to revise the TR appropriately. Licensees referencing this TR would be expected to justify its continued applicability or evaluate their plant using the revised TR.

If you have any questions, please contact the Project Manager for the review, Ekaterina Lenning at 301-415-3151 or via electronic mail at Ekaterina.Lenning@nrc.gov.

Sincerely,

/RA/

Richard Chang, Branch Chief
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No.: 99902038

Enclosures:

1. Final SE (Non-Proprietary)
2. Final SE (Proprietary)

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WCAP-18482-P/WCAP-18482-NP, REVISION 0, "WESTINGHOUSE
ADVANCED DOPED PELLET TECHNOLOGY (ADOPT™)
FUEL" (EPID: L-2020-TOP-0025) DATED JUNE 13, 2022

DISTRIBUTION:

NON-PUBLIC (Enclosure 2)
PUBLIC (Letter and Enclosure 1)
RidsNrrDorLLpb
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RLukes, NRR
RChang, NRR
ELenning, NRR

ADAMS Accession Nos.:

ML22125A156 (Package)

ML22125A177 (Letter)

ML22144A413 (Non-Proprietary SE Enclosure 1)

ML22132A284 (Proprietary SE Enclosure 2)

OFFICE	NRR/DORL/LLPB/PM	NRR/DORL/LLPB/LA	DSS/SFNB/BC
NAME	ELenning	DHarrison	RLukes
DATE	5/12/2022	5/24/2022	5/24/2022
OFFICE	OGC - NLO	OGC - NLO	NRR/DORL/LLPB/BC
NAME	CKreuzberger	NMertz	RChang
DATE	6/6/2022	6/6/2022	6/13/2022

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