

February 24, 2017

MEMORANDUM TO: Andrea D. Veil, Executive Director
Advisory Committee on Reactor Safeguards

FROM: Anna Bradford, Deputy Director **/RA/**
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: NUSCALE POWER, LLC, SAFETY EVALUATION REPORT FOR
LICENSING TOPICAL REPORT: TR-0815-16497, "SAFETY
CLASSIFICATION OF PASSIVE NUCLEAR POWER PLANT
ELECTRICAL SYSTEMS," REVISION 0

By letter dated October 29, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15306A126), NuScale Power, LLC (the applicant or NuScale), submitted Topical Report (TR) 0815-16497, Revision 0, "Safety Classification of Passive Nuclear Power Plant Electrical Systems." Specifically, NuScale requested the U.S. Nuclear Regulatory Commission (NRC) staff review and approval of what are termed in the TR as "conditions of applicability" and the methodology and bases used in their development. The conditions of applicability comprise a set of passive reactor plant design and operational attributes that, if met in full by a reactor design or license applicant, justify the applicant's determination that none of the plant electrical supply systems fulfill functions that per the regulatory definitions of "safety related" and "Class 1E" would warrant a Class 1E classification

Based on our review of the TR, the NRC staff is providing the Advisory Committee on Reactor Safeguards (ACRS) its proprietary version of topical report safety evaluation (TRSE) with ADAMS Accession No. ML17037D274. A public version of the TRSE has been placed in ADAMS with Accession No. ML17055A643. The TRSE is being provided to support a meeting of the subcommittee of the ACRS on March 24, 2017.

For TR, "Safety Classification of Passive Nuclear Power Plant Electrical Systems," the NRC staff plans to focus their presentation on the following specific category of interest:

- Changes to Analysis Methodologies.

The NRC staff requests that the ACRS withhold the proprietary version of the TRSE from public disclosure.

Project No.: PROJ0769

CONTACT: Omid Tabatabai, NRO/DNRL
(301) 415-6616

SUBJECT: NUSCALE POWER, LLC, SAFETY EVALUATION REPORT FOR LICENSING
TOPICAL REPORT: TR-0815-16497, "SAFETY CLASSIFICATION OF PASSIVE
NUCLEAR POWER PLANT ELECTRICAL SYSTEMS," REVISION 0

DISTRIBUTION:

PUBLIC

FAkstulewicz, NRO

ABradford, NRO

RidsNroOd

SLee, NRO

RidsNroDnrl

MBrown, NRO

RidsOgcMailCenter

OTabatabai, NRO

RidsAcrsAcnwMailCenter

GCranston, NRO

ADAMS Accession Nos.:

Pkg: ML17037D270

Memo: ML17037D273

TRSE (Redacted/Public): ML17055A643

***via email**

NRO-002

OFFICE	DNRL/LB1:PM	DNRL/LB1:PM	DNRL/LB1:BC	DNRL:DD
NAME	OTabatabai	MBrown*	SLee (Omid Tabatabai for)	ABradford
DATE	2/06/2017	2/06/2017	2/24/2017	2/24/2017

OFFICIAL RECORD COPY