

NRC's Feedback on Terrestrial Energy USA, Inc. Standard Design Approval Content of Application

Note: **[[]]** denotes proprietary information.

The staff previously reviewed the Terrestrial Energy USA, Inc. (TEUSA) Applicability Assessment of the IMSR® Core-unit in a document that concluded that Title 10 of the *Code of Federal Regulations* (10 CFR) Subpart 52.137, "Contents of applications; technical information" for a Standard Design Approval per Subpart E of 10 CFR Part 52 was applicable to the IMSR® Core-unit. The NRC provided feedback in a letter dated January 27, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20302A488), agreeing with TEUSA's assessment at the subpart level, but noting that not all items of the 10 CFR 52.137 subpart may apply to the IMSR® Core-unit SDA application. In a letter dated December 14, 2020 (ADAMS Accession No. ML21014A351), TEUSA submitted a proprietary document titled "Applicability Assessment – Comparison of Content Requirements of 52.137 and IMSR® Core-unit" which assessed the regulatory applicability of each item and subitem of 10 CFR 52.137. The staff's feedback on this document is below.

The following table identifies regulatory sections that the staff views as applicable that TEUSA identified as not applicable in the Applicability Assessment Table provided by TEUSA. The staff agreed with the remaining TEUSA assessments.

[[]]

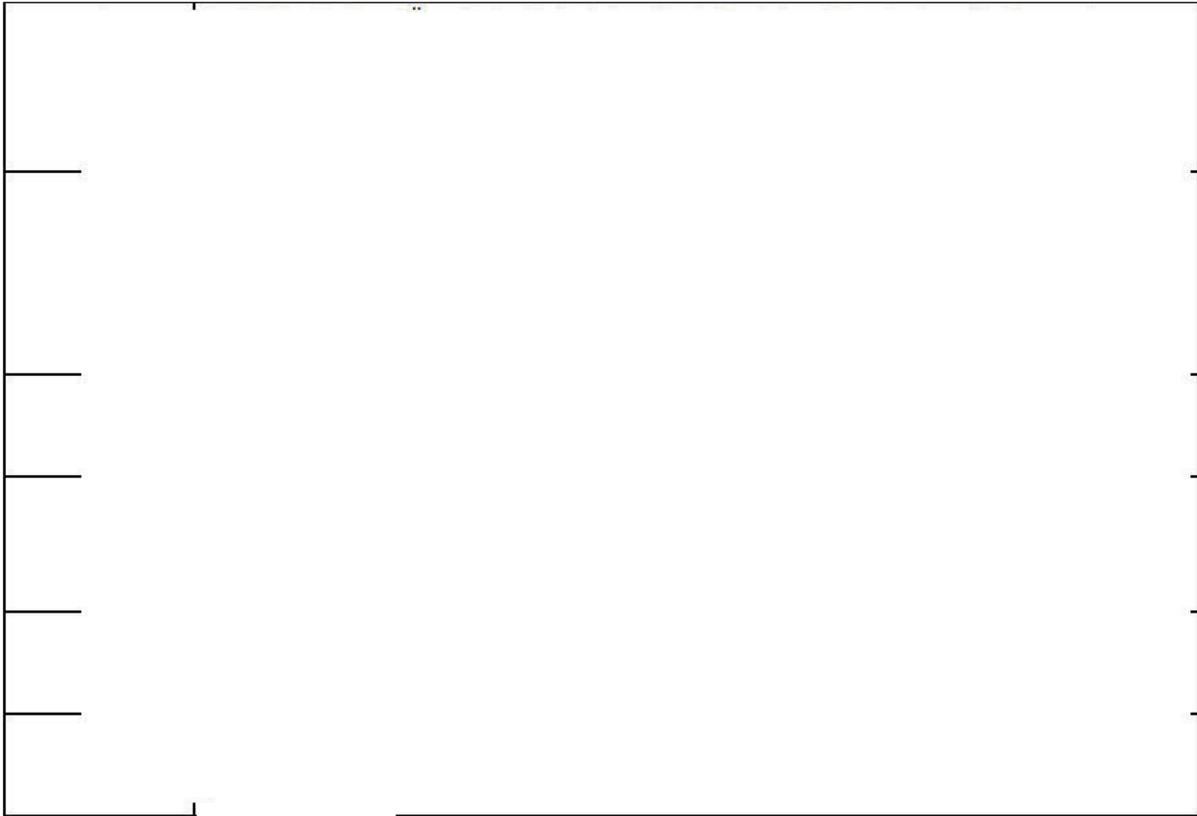
Enclosure 2

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]] Additionally, the staff has the following comments regarding the proprietary slide package titled, "Structure and Content of TEUSA SDA Application," that was submitted by TEUSA in their letter dated December 14, 2020 (ADAMS Accession No. ML21014A351):

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