

DESCRIPTION, JUSTIFICATION, AND EVALUATION OF AMENDMENT 17 CHANGES

1.0 INTRODUCTION

The scope of Amendment 17 to the Standardized NUHOMS® Certificate of Compliance (CoC) No. 1004 includes the changes described below.

Change No. 1:

For the 61BTH Type 2 DSC, this adds Heat Load Zoning Configurations 11-13 and changes the maximum assembly heat load from 1.2kW to 1.7kW. The Appendix A ITE, Appendix B Technical Specifications (TS) and Updated Final Safety Analysis (UFSAR) have been revised accordingly, as described further in this enclosure.

Change No. 2:

Certain CoC and UFSAR items are revised for consistency and clarity, as described further in this enclosure.

2.0 DESCRIPTION OF THE CHANGES

2.1 Changes to the Standardized NUHOMS® CoC

The table below provides proposed changes to the CoC pages, a brief description of the subject and/or change, and a reference to the scope item from Section 1.0 that relates to the change or changes.

CoC page	CoC Number	Description	Scope Item
1	N/A	Amendment number changed to 17 and Amendment effective Date changed to "TBD".	none
2	Condition I	Provided greater detail for the high seismic option, the HSM-HS	2
2	Condition II.1.a	Added modules for clarity	2
2 through 5	header	Amendment number changed to 17	none

2.2 Changes to the Standardized NUHOMS® CoC 1004 Appendix A Inspections, Tests, and Evaluations

The table below provides proposed changes to the ITE pages, a brief description of the subject and/or change, and a reference to the scope item from Section 1.0 that relates to the change or changes.

ITE page	ITE Number	Description	Scope Item
Cover Page	N/A	Amendment number changed to 17.	none
TOC/LOT/LOF	N/A	Table of Contents, etc. automated updates.	none
5	3.2	Dose Rate Limits for the TC (except OS197L TC) for the 61BTH are revised.	1
7	3.3.2	Dose Rate Limits for the Standardized HSM and HSM-H for the 61BTH are revised.	1

2.3 Changes to the Standardized NUHOMS® CoC 1004 Appendix B Technical Specifications

The table below provides proposed changes to the TS pages, a brief description of the subject and/or change, and a reference to the scope item from Section 1.0 that relates to the change or changes.

TS page	TS Number	Description	Scope Item
Cover Page	N/A	Amendment number changed to 17.	none
TOC/LOT/LOF	N/A	Table of Contents, etc. automated updates.	none
1-3	1.1	Definition for UNANALYZED FUEL (UF) is added.	1
2-1	2.1.1	Updated pointer to ITE 4.4	2
3-7	3.1.3	Addition of HLZC 11, 12 or 13 for the 61BTH DSC.	1
T-33	Table 1-1t	Changes made to certain parameters.	1
T-98, T-99	Table 1-4e	Updated table title to provide a more detailed description. Deleted unnecessary note below table.	1
T-100, T-101	Notes: Table 1-4e	Updated Table 1-4e notes.	1
T-102, T-103	Table 1-4f and notes	New Table 1-4f and notes for 61BTH DSC added.	1

TS page	TS Number	Description	Scope Item
T-104, T-105	N/A	Updated table deletion identifiers.	1
F-30	Figure 1-25	Added note for HLZC's 11-13.	1
F-34	Figure 1-25d	HLZC No. 11 for Type 2 61BTH DSC added.	1
F-35	Figure 1-25e	HLZC No. 12 for Type 2 61BTH DSC added.	1
F-36	Figure 1-25f	HLZC No. 13 for Type 2 61BTH DSC added.	1

2.4 Changes to the Standardized NUHOMS® CoC 1004 Appendix C ASME Code Alternatives

The table below provides proposed changes to the TS pages, a brief description of the subject and/or change, and a reference to the scope item from Section 1.0 that relates to the change or changes.

ASME Code Alt page	ASME Code Alt Number	Description	Scope Item
Cover Page	N/A	Amendment number changed to 17.	none
LOT/Tables	N/A	Amendment number changed to 17.	none

2.5 Changes to the Standardized NUHOMS® CoC 1004 UFSAR

Enclosure 6 (Proprietary version) and Enclosure 7 (Public version) provide proposed Amendment 17 changed pages for the Standardized NUHOMS® UFSAR. Amendment 17 proposed UFSAR changes are tracked by italicized text and revision bars.

The following paragraphs discuss the UFSAR areas proposed for change, based on the changes described above. Editorial changes to correct spelling, grammar, etc. are also made to the changed UFSAR pages where appropriate.

In support of Change 1, changes are made to UFSAR Chapters 1, 7 and 10.

In support of Changes 1 and 2, changes are made to UFSAR Appendix T Chapters T.1, T.2, T.4, T.5, T.8, T.10 and T.11.

3.0 **JUSTIFICATION OF CHANGES**

These changes add three new Heat Load Zoning Configurations 11-13 for the 61BTH Type 2 DSC and change the maximum assembly heat load from 1.2 kW to 1.7 kW. The changes proposed by this amendment remain bounded by the maximum heat load of 31.2 kW for the 61BTH Type 2 DSC. There are no changes to the design of the major components of the Standardized NUHOMS® System.

4.0 **EVALUATION OF CHANGES**

TN has evaluated the changes described above for structural, thermal, shielding, confinement and criticality adequacy, as applicable, and has concluded that these changes to the Standardized NUHOMS® System have no significant effect on safety.

The evaluations for the changes are included in Enclosure 6 (Proprietary version) and Enclosure 7 (Public version) of this submittal.