

Radioactive Material Transport Packaging System Safety Analysis Report

for Model AOS-025, AOS-050, and AOS-100 Transport Packages

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Revision History

| Revision | Date | Description of Changes |
|----------|--------------------|--|
| A | January 11, 2008 | Preliminary release. |
| B | June 20, 2009 | Preliminary release. |
| C | September 11, 2009 | Preliminary release. |
| D | September 28, 2010 | Preliminary release. |
| E | October 11, 2011 | Preliminary release. |
| F | February 1, 2012 | Initial Release. |
| G | July 27, 2012 | <ul style="list-style-type: none"> Update to include cask lid elastomeric seal, and included text so the cask lid metallic seal is differentiated from the new elastomeric seal. Applied miscellaneous corrections (table of changes included with cover page of the submittal). |
| H | December 30, 2012 | <ul style="list-style-type: none"> Updated in response to NRC RAIs. Applied miscellaneous corrections (table of changes included with cover page of the submittal). |
| H-1 | March 11, 2016 | <ul style="list-style-type: none"> Updated to add new isotope, Ir-194. General update to correct errors and incorporate changes communicated to NRC in letters dated April 4, May 14, and September 26, 2013, and May 6, June 5, and August 5, 2015. Applied miscellaneous updates and corrections (table of changes included with cover page of the submittal). |
| H-2 | June 27, 2016 | Updated in response to NRC RAI. |
| H-3 | May 3, 2017 | Clarified <i>Special Form</i> material shipment requirements and applied miscellaneous corrections. |
| H-4 | November 28, 2017 | Updated Cask Thread Sealant-related information. |
| H-5 | July 20, 2018 | <ul style="list-style-type: none"> Chapter 1 – Revised Subsection 1.2.2 (added discussion relating to isotope mixtures); revised Table 1-2 (deleted footnote e and renumbered remaining footnotes); added Table 1-2b; updated Table 1-5 drawing revisions Chapter 2 – Replaced Paragraph 2.5.3.1.4; added Appendix 2.12.16 Chapter 5 – Added Appendix 5.5.5, Appendix 5.5.6, and Appendix 5.5.7 Chapter 7 – Added Appendix 7.5.1 Applied miscellaneous corrections (table of changes included with cover page of the submittal) |
| H-6 | December 10, 2018 | <ul style="list-style-type: none"> Update in response to NRC RAI (10-09-2018) addressing changes and clarifications in SAR Chapters 1, 5, 7, and 8 Applied miscellaneous corrections (table of changes included with cover page of the submittal) |
| H-7 | January 25, 2019 | <ul style="list-style-type: none"> Updated in response to NRC questions (email dated 01-15-2019) addressing changes and clarifications in SAR Chapters 1, 2, 5, and 7 Table of changes included with the cover page of the submittal |

| Revision | Date | Description of Changes |
|----------|------------------|--|
| J | January 31, 2021 | <ul style="list-style-type: none"> • Consolidation of Revisions H – H7 (Revision I intentionally skipped) • Subsection 1.2.2 and Section 7.1 – Clarified that the shoring materials are structural • Paragraphs 2.5.3.1.2 through 2.5.3.1.4 – Calculations revised to correct minor errors and typos • Subsection 2.6.7 – Removed stale note created in Revision H-5 • Figures 3-18 through 3-20 – Replaced thermal transient plots for AOS Model-025 fire condition • Figure 4-3 – Changed port cover torque requirement • Chapter 9 – Updated with current requirements, approval letter, and certificate • Updated <i>ANSI N14.5</i> references to 2014 edition • Applied miscellaneous corrections (table of changes included with cover page of the submittal) |

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