

## CHAPTER 14

## TECHNICAL SPECIFICATIONS

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## ACRONYMS AND ABBREVIATIONS

**Acronym/Abbreviation****Definition**

ANS

American Nuclear Society

ANSI

American National Standards Institute

## **CHAPTER 14 – TECHNICAL SPECIFICATIONS**

### **14.1 TECHNICAL SPECIFICATIONS**

The SHINE technical specifications were developed following the format and content guidance of American National Standards Institute/American Nuclear Society (ANSI/ANS) 15.1-2007, The Development of Technical Specifications for Research Reactors (ANSI/ANS, 2007), and incorporating the applicable guidance of NUREG-1537, Parts 1 and 2 (USNRC, 1996a; USNRC, 1996b) and the Interim Staff Guidance Augmenting NUREG-1537, Parts 1 and 2 (USNRC, 2012a; USNRC, 2012b). Normal operation of the SHINE facility within the limits of the technical specifications will not result in offsite radiation exposure in excess of 10 CFR Part 20 guidelines. Observance of these technical specifications limits the likelihood and consequences of malfunctions.

## 14.2 REFERENCES

**ANSI/ANS, 2007.** The Development of Technical Specifications for Research Reactors, American National Standards Institute, ANSI/ANS-15.1, 2007.

**USNRC, 1996a.** Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors: Format and Content, NUREG-1537, Part 1, U.S. Nuclear Regulatory Commission, February 1996.

**USNRC, 1996b.** Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors: Standard Review Plan and Acceptance Criteria, NUREG-1537, Part 2, U.S. Nuclear Regulatory Commission, February 1996.

**USNRC, 2012a.** Interim Staff Guidance Augmenting NUREG-1537, Part 1, “Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors: Format and Content,” for Licensing Radioisotope Production Facilities and Aqueous Homogeneous Reactors, Interim Staff Guidance Augmenting NUREG-1537, Part 1, U.S. Nuclear Regulatory Commission, October 27, 2012.

**USNRC, 2012b.** Interim Staff Guidance Augmenting NUREG-1537, Part 2, “Guidelines for Preparing and Reviewing Applications for the Licensing of Non-Power Reactors: Standard Review Plan and Acceptance Criteria,” for Licensing Radioisotope Production Facilities and Aqueous Homogeneous Reactors, Interim Staff Guidance Augmenting NUREG-1537, Part 2, U.S. Nuclear Regulatory Commission, October 27, 2012.