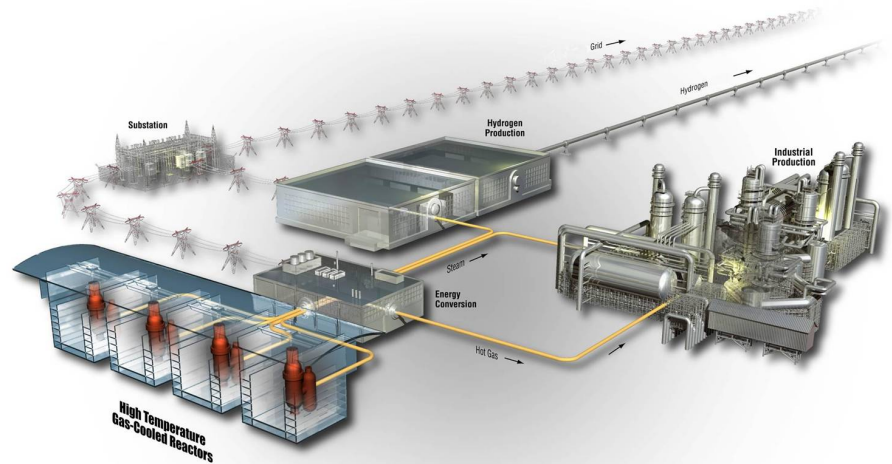


# VHTR Program Requirements Document

## 18.1 VHTR TDO Assessments

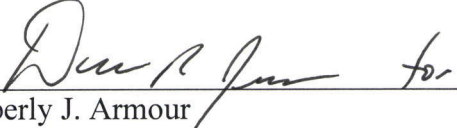
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## Idaho National Laboratory

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## Approved by:

  
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 Kimberly J. Armour  
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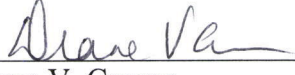
3/13/12

Date

  
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Date

  
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Date



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## 1. PURPOSE

This Program Requirements Document (PRD) identifies requirements for establishing and performing self assessments and management assessments. The requirements were sourced from the identified parenthetical citations and selected to meet the following regulations:

- 10 CFR Part 50, Appendix B, “Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants”,
- 10 CFR 830, Subpart A, “Quality Assurance Requirements”.

The source documents include:

- ASME NQA-1-2008, 1a-2009, “Quality Assurance Requirements for Nuclear Facility Applications”,
- DOE Order 226.1A, “Implementation of Department of Energy Oversight Policy”, and
- DOE Order 414.1C, “Quality Assurance”.

## 2. APPLICABILITY

This PRD applies to self assessments and management assessments conducted for the Very High Temperature Reactor (VHTR) Technology Development Office (TDO).

## 3. REQUIREMENTS

### 3.1 General

- 3.1.1 Comprehensive assessments of all facilities, systems, and organizational elements, including subcontractors, shall be developed, implemented, and performed on a recurring basis. *[DOE O 226.1A, Attachment 1, Appendix A, 2]*
- 3.1.2 The scope and frequency of assessments shall be specified in site plans and program documents and shall ensure that assessments required by applicable DOE directives are being performed; the effectiveness of safety management programs, including programs that are credited in the safety basis for nuclear facilities, are being adequately assessed; deficiencies are being self-identified; and corrective actions are being taken in a timely and effective manner. *[DOE O 226.1A, Attachment 1, Appendix A, 2]*

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- 3.1.3 External peers or subject matter experts may be utilized to support assessment activities. *[DOE O 226.1A, Attachment 1, Appendix A, 2]*
- 3.1.4 The assessments shall be formally planned and scheduled based on the risks, hazards, and complexity of the processes and activities to be evaluated. *[DOE O 226.1A, Attachment 1, Appendix A, 2.b(1)]*

### **3.2 Self-Assessment**

- 3.2.1 Self-Assessment shall be used to evaluate performance at all levels periodically and to determine the effectiveness of policies, requirements, and standards and the implementation status. *[DOE O 226.1A, Attachment 1, Appendix A, 2.a]*
- 3.2.2 Self-assessments, which focus on hands-on work and the implementation of administrative processes, shall involve workers, supervisors, and managers to encourage identification and resolution of deficiencies at the lowest level practicable (e.g., workplace inspections and post-job reviews). *[DOE O 226.1A, Attachment 1, Appendix A, 2.a.(2)]*
- 3.2.3 Support organizations shall perform self-assessments of their performance and the adequacy of their processes. *[DOE O 226.1A, Attachment 1, Appendix A, 2.a.(3)]*
- 3.2.4 The implementation and adequacy of processes shall be assessed at all levels and shall include analysis of the collective results of lower-level self-assessments. *[DOE O 226.1A, Attachment 1, Appendix A, 2.a.(4)]*
- 3.2.5 Self-assessment results shall be documented commensurate with the significance of and risks associated with the activities being evaluated. *[DOE O 226.1A, Attachment 1, Appendix A, 2.a.(5)]*
- 3.2.6 Deficiencies shall be accurately described and documented for evaluation and correction using formal issues management processes. *[DOE O 226.1A, Attachment 1, Appendix A, 2.a.(5)]*

### **3.3 Management Assessment**

- 3.3.1 Management shall regularly assess the adequacy and effective implementation of the Quality Assurance Program. *[NQA-1-2008, 1a-2009, Requirement 2, 100 (c)]*
- 3.3.2 Managers shall assess their management processes and identify and correct problems that hinder the organization from achieving its objectives. *[DOE O 414.1C, Attachment 2, 3.i] [10 CFR 830.122 (i)]*

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- 3.3.3 Management self-assessments (also called management assessments) shall be performed by management and shall be developed (scope and review criteria) based on the nature of the facility/activity being assessed and the hazards and risks to be controlled. [*DOE O 226.1A, Attachment 1, Appendix A, 2.a.(1)*]

#### **4. DEFINITIONS**

None.

#### **5. REFERENCES**

10 CFR 830 Subpart A, "Quality Assurance Requirements," *Code of Federal Regulations*, Office of the Federal Register.

DOE Order 226.1A, "Implementation of Department of Energy Oversight Policy," U.S. Department of Energy.

DOE Order 414.1C, "Quality Assurance," U.S. Department of Energy.

ASME NQA-1-2008, 1a-2009, "Quality Assurance Requirements for Nuclear Facility Applications," American Society of Mechanical Engineers.

#### **6. APPENDIXES**

None.