

**U.S. Department of Energy Oak Ridge Operations  
Nuclear Facility Safety Basis Fundamentals  
Self-Study Guide  
Review Questions**

**Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Directions:**

This is an open-book evaluation. Complete the questions, and submit your answers (hand-written or electronically) to the Training Center. Someone will check and grade your answers. If you achieve a score of at least 80%, you will receive a completion certificate.

**Questions:**

1. What is safety basis (SB)?
  
2. How does SB fit with integrated safety management (ISM)?
  
3. In what primary DOE documents can requirements and guidance for SB be found?
  
4. What are the “graded approach” factors that DOE takes into account in ensuring that the level of analysis and documentation and the actions used to comply with the requirements are commensurate with the risk?
  
5. What are the elements of the authorization agreement?
  
6. What is the Documented Safety Analysis (DSA)?

7. What SB process must be conducted when changes to the facility configuration or processes that underlie the documented safety basis occur?
8. Generally, what does the development of a documented safety analysis (DSA) entail?
9. What is the rule of thumb for the designation of safety-significant structures, systems, or components (SSCs)?
10. How often must the contractor submit DSA revisions?
11. What is the purpose of the Technical Safety Requirements (TSR) document?
12. List and describe the operating limits contained in the TSR document?
13. What is the review and approval process for TSR revisions?
14. When is an unreviewed safety question determination (USQD) required?
15. What are some key ways to keep operations within the safety basis?
16. What must the contractor do if it identifies or discovers a potential inadequacy in the safety analysis (PISA) or a possible reduction in the safety margin (as defined in the TSR)?
17. What are some typical means of flowing down safety basis requirements for safety management programs?

18. What is ORO's responsibility in the SB process?

19. What is the contractor's responsibility in the SB process?

20. When would an unreviewed safety question exist?

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**Signature:**

**I certify that I have completed these open-book review questions without assistance from anyone.**

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**Name**

**Date**