

**GEOGRAPHIC INFORMATION SYSTEMS  
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**\*\*\* EXAMINATION \*\*\***

**IMPROVING VERSUS MAINTAINING NUCLEAR SAFETY**

1. **Over long periods of time, major changes in engineering will affect:**
  - a) design of nuclear power plants
  - b) construction of nuclear power plants
  - c) operation of nuclear power plants
  - d) All of the above
  
2. **The licensing of a nuclear power plant includes:**
  - a) the design safety analysis
  - b) applicable codes and standards
  - c) operational procedures
  - d) All of the above
  
3. **A terrorist flying a passenger jet into a nuclear power plant:**
  - a) was not a maximum credible accident before September 11th
  - b) was a maximum credible accident before September 11th
  - c) may have been a maximum credible accident before September 11th
  - d) None of the above
  
4. **The Brown's Ferry fire caused a need for safety improvements by:**
  - a) changing insulation material
  - b) properly segregating electrical cables
  - c) using steam generator level indicators
  - d) All of the above
  
5. **The Barseback incident caused a need for safety improvements by:**
  - a) changing insulation material
  - b) properly segregating electrical cables
  - c) using steam generator level indicators
  - d) All of the above
  
6. **SAHARA is an acronym for:**
  - a) safety as high as reasonably achievable
  - b) safety as high as reasonably acceptable
  - c) security as high as reasonably acceptable
  - d) None of the above

7. **The question HOW SAFE IS SAFE ENOUGH? is for:**
- a) the owner to answer
  - b) the owner's project engineer to answer
  - c) society to answer
  - d) All of the above
8. **A regulatory body making an assessment of the public view of risk is:**
- a) simple
  - b) straight forward
  - c) extremely difficult
  - d) None of the above
9. **Safety improvements are usually resisted by:**
- a) the public
  - b) the owner
  - c) the regulatory body
  - d) All of the above
10. **Organizing to maintain safety brings the risk of:**
- a) dominance of routine
  - b) a lapse of mindfulness
  - c) both a and b
  - d) Neither a nor b
11. **The basic regulatory mission of the NRC was:**
- a) the US Atomic Energy Act of 1954
  - b) the Energy Reorganization Act of 1974
  - c) both a and b
  - d) Neither a nor b
12. **The basic mission of the NRC was:**
- a) protect the public health and safety
  - b) to regulate the civilian use of nuclear material
  - c) protect the environment
  - d) All of the above
13. **PSR is an acronym for:**
- a) periodic safety review
  - b) public safety record
  - c) public safety review
  - d) None of the above
14. **PSA is an acronym for:**
- a) probabilistic safety assessment
  - b) public shutdown announcement
  - c) public safety act
  - d) None of the above

15. **NPP is an acronym for:**
- a) nuclear probability plan
  - b) nuclear power plant
  - c) national possibility plan
  - d) None of the above
16. **PSR is an acronym for:**
- a) power safety record
  - b) public safety record
  - c) periodic safety review
  - d) public security review
17. **Improvements in the safety of operation are most beneficial:**
- a) if identified by the operator himself or his staff
  - b) if identified by the regulator
  - c) if identified by the public
  - d) None of the above
18. **CNRA is an acronym for:**
- a) Committee on Nuclear Reports and Actions
  - b) Committee on Nuclear Regulatory Activities
  - c) Conference of Nuclear Regulatory Agencies
  - d) None of the above
19. **A state of the art device:**
- a) should always replace older, reliable devices
  - b) should replace older devices if the former is costly and has value
  - c) should not replace older, reliable devices
  - d) None of the above
20. **Longer operating experience and design conservatism may:**
- a) have the effect of reverse ALARA.
  - b) have the effect of ALARA.
  - c) be dangerous to the security of the plant
  - d) None of the above

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<b>*** ANSWER SHEET *** U158</b>  <b>IMPROVING VERSUS MAINTAINING NUCLEAR SAFETY</b>	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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I hereby certify that I studied the course materials, and the above answers are my own. No other person has helped me to complete this exam.

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