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Continuing Education Course #503
Managing a Nuclear Plant Project

1. The United States of America had 55 operating nuclear plants in 2022 that provided 20% of the nation's electric power.
 a. true
 b. false
2. To meet the goal of low carbon emissions nuclear plants must be built and maintained more efficiently.
 a. true
 b. false
3. Nuclear power plants undergo seasonal refueling scheduled _____.
 a. non- critical maintenance
 b. outages
 c. valve replacement work
 d. emergent work
4. An added challenge to performing work in a nuclear plant is:
 a. managing difficult work
 b. controlling radiation exposure
 c. controlling the work in a contaminated environment
 d. using effective project management practices
5. The following factor(s) were used to determine the total cost of the options for replacing the valves A-549 and B-549.:
 a. Forced Outage Risk
 b. Forced Outage Cost
 c. Replacement /Repair Cost
 d. all of the above
6. Total Option Cost Equals Forced Outage Cost x Forced Outage Risk + _____.
 a. Repair Cost
 b. Replacement/Repair Cost
 c. Replacement Cost
 d. Valve Cost
7. The Drywell Shut Down Cooling system is a critical system in nuclear plant safety for boiling water reactor plants.
 a. true
 b. false
8. An option to Do Nothing means taking a risk estimated at _____% that would result in a 21-day forced outage.

- a. 20
- b. 25
- c. 30
- d. 15

9. _____ will be used to plan, schedule, and monitor the project work.

- a. Risk-Cost Analysis
- b. Project Management
- c. Shutdown Schedule
- d. radiation exposure control

10. The Implementation Strategy includes using specialty contractors to automatically cut out the existing valves and weld the new ones in place.

- a. true
- b. false

11. Team Members have a Professional Engineering License in Nuclear Engineering.

- a. true
- b. false

12. Which Professional Engineering License is not included in the Key Team Member's education listing?

- a. Civil Engineering
- b. Electrical Engineering
- c. Mechanical Engineering
- d. Nuclear Engineering

13. The following Key Members have experience in Project Management.

- a. Area Manager, Project Manager, Task Manager
- b. Project Manager, Task Manager, Field Engineer
- c. Project Manager, Task Manager, Design Engineer.
- d. Project Manager, Design Engineer, Field Engineer

14. The A-549 is a CRANE 16" double disc gate valve that controls suction to the Shut Down Cooling System.

- a. true
- b. false

15. The A-549 CRANE 16" double gate valve is being replaced due the following conditions:

- a. excessive leakage
- b. high dosage rates
- c. history of unsuccessful repairs
- d. a & c

16. An ALARA review is done prior to the outage and is based on the known and expected conditions for working in a contaminated area. ALARA is:

- a. a low dosage
- b. principle of radiation protection
- c. a reasonable low dosage
- d. none of the above

17. The nuclear plant's overall goal of exposure reduction included _____ of the Reactor Recirculating System.

- a. glove bags
- b. stay time due to hot conditions

- c. chemical decontamination
- d. all the above
18. Once the valves were cut out, a host of unexpected and unpredicted findings demanded more effort and resources.
- a. false
- b. true
19. Glove bags for decontamination are considered a good practice for minimizing decontamination that requires special _____.
- a. measurements
- b. scaffolding
- c. worker training
- d. none of the above
20. The original project dosage was estimated at _____ REM.
- a. 30
- b. 25
- c. 43
- d. None of the above
21. The B-549 valve was a different type and make as the A-549 valve.
- a. true
- b. false
22. Cutting out the B-549 CRANE 16" double gate valve encountered several problems caused by the following conditions:
- a. unexpected chemical decontamination results
- b. limited space requiring scaffolding rebuilds
- c. weld machine installed on the wrong side
- d. all the above
23. The Department of Energy (DOE) Lessons Learned Overview reporting includes:
- a. real time experience lessons
- b. best practices for construction
- c. best practices for maintenance
- d. all the above
24. DOE OPEXShare database is the central web-based collection point for:
- a. operating experience lessons learned
- b. best practices across DOE complex
- c. collaborative platform for government
- d. all the above
25. Project Lessons Learned problems were:
- a. valve work package estimated as exempt instead of modification
- b. conflict due to four design engineers assigned
- c. nuclear workers dosage requirements
- d. a & b
26. Nuclear Plants can have one or more operating nuclear reactors whose job is to:
- a. control nuclear fission
- b. house fuel rods

- c. create heat
- d. all the above

27. United States nuclear reactors are light-water reactors. Which is not a light water reactor?

- a. Pressurized Water Reactor (PWR)
- b. Canada Deuterium Uranium (CANDU)
- c. Boiling Water Reactor (BWR)
- d. none of the above

28. The Pressurized Water Reactor (PWR) is different from the Boiling Water Reactor (BWR) because BWRs heat water and produce steam directly inside the reactor vessel.

- a. true
- b. false

29. Design engineers must include dose estimates for nuclear workers who work in contaminated areas.

- a. true
- b. false

30. A nuclear worker exposed to a dose rate of 20mR/hr would be available for up to _____ hours of work in a contaminated area.

- a. 25
- b. 250
- c. 320
- d. 32

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