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## SGRFN STUDY GUIDE

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1. If the low water pressure device on an EMD unit trips, what action should be taken?

- A:** Shut down and do not restart the diesel engine.
- B:** Block in the low water pressure button and restart the diesel engine.
- C:** Reset the EMDEC computer and do not restart.
- D:** The device / fault may be reset and the engine restarted provided that a sufficient level of water is indicated in the sight glass.

**REF:** SGRFN 21

2. Any diesel electric locomotive which will not be placed in service for a period of one hour or longer should be shut down when the ambient temperature is:

- A:** 10 degrees or higher.
- B:** 25 degrees or higher.
- C:** 35 degrees or higher.
- D:** 40 degrees or higher.

**REF:** SGRFN 53

3. After taking charge of diesel locomotives and inspecting the fuel levels, and it is determined that there will not be sufficient fuel to reach final terminal or next scheduled fueling point, who must be contacted?

- A:** CNOC/Train Dispatcher.
- B:** The Road Foreman at your home crew base.
- C:** The General foreman at the nearest engine service facility.
- D:** Note on conditions enroute section of MAP 100, and send TMU message to CNOC.

**REF:** SGRFN 53

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4. Amtrak Engineers who have been absent from active service for a period of \_\_\_\_\_ days and are returning to service from injury, illness, or discipline shall complete re-entry to service.

**A:** 30 days.

**B:** 90 days.

**C:** 180 days.

**D:** 360 days.

**REF:** SGRFN

5. Amtrak Passenger Engineers seeking to become OJT instructor Engineers must have a minimum of how many years experience?

**A:** 6 months.

**B:** 2 year.

**C:** 18 months

**D:** 4 years.

**REF:** SGRFN 56

6. Amtrak Passenger Engineers must notify their supervisor how many days prior to certification expiration?

**A:** 30 days.

**B:** 60 days.

**C:** 90 days.

**D:** 180 days.

**REF:** SGRFN 10

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7. Amtrak Passenger Engineers are required to pass a regular or special periodic physical annually regardless of age, when must this be done in the year of engineer re-certification?

- A:** The birth month but not less than 90 days prior to certification expiration.
- B:** The birth month but not less than 60 days prior to certification expiration.
- C:** The birth month but not less than 60 days prior to certification expiration.
- D:** The birth month is sufficient.

**REF:** SGRFN 10

8. What may be done with System General Road Foreman Notices that do not apply to an Engineer's region upon which their assignment works?

- A:** They must be marked in red ink on the index page.
- B:** They must be marked with an X and carried for seven days.
- C:** They must be carried.
- D:** They may be discarded.

**REF:** SGRFN 01

9. When operating on a descending grade after ascending a grade where all three units are required to traverse the grade, how many units must be isolated?

- A:** Lead unit only.
- B:** One of the trailing units.
- C:** None to ensure required dynamic brake is available.
- D:** None, because while descending a grade, isolating units does not save fuel.

**REF:** SGRFN 53

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10. How many people are permitted to ride in the operating cab or compartment of any locomotive, control car, or multiple unit train?

- A:** No more than five people, including the operating crew.
- B:** No more than six people, including the operating crew.
- C:** No more than three people, including the operating crew.
- D:** No more than four people, including the operating crew, except when authorized by the System General Road Foreman Office.

**REF:** SGRFN 02

11. When are employees allowed to ride the head end of a train?

- A:** Employees are permitted to ride the head end only in the performance of their duties.
- B:** While dead heading.
- C:** When taking a personal trip.
- D:** Employees NOT qualified on the rules may ride the head end anytime.

**REF:** SGRFN 02

12. Only persons in the following categories may occupy the operating cab of a train while a Student Engineer is operating the train:

- A:** A member of the assigned Train and Engine crew (Engineer, Second Engineer, Assistant Conductor, Conductor).
- B:** Any railroad supervisor.
- C:** A Designated Supervisor of Locomotive Engineers evaluating a Student Engineer or assigned Engineer.
- D:** Both A and C are correct.

**REF:** SGRFN 02

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13. Engineers must report convictions for or completed state action to cancel, revoke, suspend or deny a motor vehicle drivers license for violations pertaining to operation of a motor vehicle under the influence of drugs or alcohol within \_\_\_\_ hours, to:

- A:** Within 48 hours, to their immediate supervisor or, in their absence, the appropriate Amtrak EAP counselor.
- B:** Within 24 hours, to their immediate supervisor or, in their absence, the appropriate Amtrak EAP counselor.
- C:** Within 36 hours, to their immediate supervisor or, in their absence, the local chairmen.
- D:** Within 48 hours, to their immediate supervisor or, in their absence, CNOC or the appropriate Amtrak dispatching center.

**REF:** SGRFN 10

14. What must be done when an Engineer's certification card is lost or destroyed?

- A:** Immediately report such to the appropriate DSLE (Designated Supervisor of Locomotive Engineers).
- B:** When DSLE cannot be contacted, report the loss to CNOC and/or the appropriate Amtrak Dispatching Center, DSLE must be contacted as soon as possible.
- C:** DSLE, CNOC or Dispatching Center will arrange for a replacement certificate as soon as possible, Engineer will continue trip until replacement is received.
- D:** All the above.

**REF:** SGRFN 10

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15. The AESS system that is being installed on P-42 Locomotives stands for what system?

- A:** Automatic Engine Start/Stop.
- B:** Automatic Engine Start System.
- C:** Automatic Energy Saving System.
- D:** Automatic Engineer Start Stop.

**REF:** SGRFN 53

16. When operating a multiple unit consist to ensure fuel conservation by isolating units, where can Amtrak's policy on isolating units be found?

- A:** AMT-3 section 5.0 Train Handling.
- B:** AMT-3 section 9.0 Equipment Instructions.
- C:** SGRFN 53 Diesel Locomotive Fuel Conservation / Diesel locomotive Isolation Procedures
- D:** Timrtable Special Instruction (Diesel locomotive Isolation Procedures)

**REF:** SGRFN 53

17. Diesel Locomotives main engine will be shut down when the outside ambient temperature is what degree and above?

- A:** 50 F.
- B:** 40 F.
- C:** 32 F.
- D:** Never shut down the main engine unless instructed by the mechanical department.

**REF:** SGRFN 53

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18. Engineers must monitor fuel levels by observing fuel sight glasses, fuel gauge, fuel monitor to determine if there is sufficient fuel to reach fueling point or final terminal; what form must this fuel information be recorded on?

**A:** MAP 21A.

**B:** MAP 100.

**C:** MAP 101.

**D:** MAP 1173.

**REF:** SGRFN 53

19. When using cruise control on a multiple unit GE P42 consist, in order to conserve fuel, the engineer is required to?

**A:** Use maximum throttle position to maintain cruise speed.

**B:** Use minimum throttle position to maintain cruise speed.

**C:** Use Notch 7 to maintain set cruise speed.

**D:** Use cruise control with maximum throttle setting only when ascending grades of 1 mile or more in length.

**REF:** SGRFN 53

20. What is the proper HEP mode change procedure for a P40/42 and P32BWH?

**A:** Press the HEP OFF button.

**B:** Move the HEP Mode switch to NORMAL or STANDBY.

**C:** Wait 1 minute then press and hold the HEP ON button until HEP starts.

**D:** All of the above.

**REF:** SGRFN 53

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21. On P-42 Locomotives equipped with the AESS system, where is the Auto Start Disable Switch (ASDS) located?

- A:** Control Area #1, behind access door to the traction motor support bearing monitor.
- B:** On engine control (EC) panel.
- C:** Control Area # 3 near the Head End Transfer (HETS) switch.
- D:** In the machine room, adjacent to the engine start station.

**REF:** SGRFN 53

22. What control stand settings are required for the Automatic Engine Start Stop (AESS) system to function on a P-42?

- A:** Throttle to Idle, Independent brake applied, and Reverser handle in Neutral.
- B:** Throttle to Idle, Automatic brake applied in full service, Parking Brake applied, and Generator Field switch off.
- C:** HEP shut down.
- D:** Throttle to idle, Independent brake applied, and Engine control switch in Isolate.

**REF:** SGRFN 53

23. When all the control stand settings are correct and HEP is not running on a single P-42 locomotive, how many minutes does the countdown display on the IFD screen before the Automatic Engine Start Stop (AESS) System shuts the locomotive down?

- A:** 2 Minutes.
- B:** 5 minutes.
- C:** 10 minutes.
- D:** 20 minutes.

**REF:** SGRFN 53



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24. What conditions must be met to automatically restart a P-42 (AESS) equipped locomotive?

**A:** Move the reverser Forward and wait 2 minutes.

**B:** Move the Engine Control switch to start, reverser Forward, and wait 2 minutes.

**C:** Close the Generator Field, move the reverser handle to Forward or Reverse and the engine will start immediately.

**D:** Close the Generator Field, move the reverser handle to Forward or Reverse, wait approximately 2 minutes for engine to start.

**REF:** SGRFN 53

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ANSWERS	
1.	D
2.	D
3.	A
4.	D
5.	D
6.	C
7.	A
8.	D
9.	C
10.	D
11.	A
12.	D
13.	A
14.	D
15.	A
16.	D
17.	B
18.	B
19.	B
20.	D
21.	A
22.	A
23.	C
24.	D