

## PBAPS

## LIMITING CONDITION FOR OPERATION

## SUPVEILLANCE REQUIREMENTS

## 4.9.A.1.2 (Continued)

- e. At least once every 31 days by obtaining a sample of fuel oil from the storage tank in accordance with ASTM D2276-78, and verifying that total particulate contamination is less than 10mg/liter when checked in accordance with ASTM D2276-78, Method A, except that the filters specified in ASTM D2276-78, Sections 5.1.6 and 5.1.7, may have a nominal pore size of up to three (3) microns.
- f. At least once per 18 months by:
  - 1. Subjecting the diesel to an inspection in accordance with procedures prepared in conjunction with its manufacturer's recommendations for this class of standby service.
- g. At least once per 24 months by:
  - 1. Verifying the diesel generator capability to reject a load of greater than or equal to that of the RHR Pump Motor for each diesel generator while maintaining voltage within  $4160 \pm 410$  volts and frequency at  $60 \pm 1.2$ hz.
  - 2. Verifying the diesel generator capability to reject an indicated load of 2400 kW-2600 Kw without tripping. The generator voltage shall not exceed the initial value ( $4160 \pm 410$  volts) by more than 660 volts during and following the load rejection.

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## LIMITING CONDITIONS FOR OPERATION

## SURVEILLANCE REQUIREMENTS

## 4.9.A.1.2 (Continued)

4. Verifying the diesel generator's capability to:
- a) Synchronize with the offsite power source while the generator is loaded with its emergency loads upon a simulated restoration of offsite power.
  - b) Transfer its loads to the offsite power source, and
  - c) Be restored to its standby status.
- i. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting<sup>a</sup> all four diesel generators simultaneously and verifying that all four diesel generators accelerate to at least 855 rpm in less than or equal to 10 seconds.
- j. At least once per 10 years by draining each fuel oil tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite or equivalent solution.
- k. The fuel oil storage tank cathodic protection system shall be checked as follows:
- 1. At least once every twelve months perform a test to determine whether the cathodic protection is adequate, and

<sup>a</sup>This test shall be conducted in accordance with the manufacturer's recommendations regarding engine prelube and warmup and, as applicable, loading and shutdown.

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## LIMITING CONDITIONS FOR OPERATION

## SURVEILLANCE REQUIREMENTS

## 4.9.A.1.2 (Continued)

2. At least once every two months inspect the cathodic protection rectifiers.
1. If the number of failures during the last 20 valid demands<sup>d</sup> is less than or equal to 1, the test frequency shall be at least once per 31 days.  
  
If the number of failures during the last 20 valid demands is greater than or equal to 2, the test frequency shall be at least once per 7 days<sup>e</sup>.
- m. All diesel generator failures, valid or non-valid, shall be reported to the Commission in a Special Report within 30 days. Reports of the diesel generator failures shall include the information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977.

<sup>d</sup>Criteria for determining the number of failures and number of valid demands shall be in accordance with Regulatory Position C.2.e of Regulatory Guide 1.108, but determined on a per diesel generator basis.

<sup>e</sup>The associated test frequency shall be maintained until seven consecutive failure free demands have been performed and the number of failures in the last 20 demands have been reduced to one. For the purposes of determining the required frequency, the previous test failure count may be reduced to zero if a complete diesel overhaul to like-new condition is completed. This diesel overhaul, including appropriate post-maintenance operation and testing, shall be specifically approved by the manufacturer and acceptable diesel reliability must be demonstrated. The reliability criterion shall be the successful completion of 14 consecutive tests. Ten of these tests may be slow starts in accordance with Surveillance Requirements 4.9.A.1.2.a.3 and 4.9.A.1.2.a.4 and four tests shall be fast starts in accordance with the Surveillance Requirement 4.9.A.1.2.b. If this criterion is not satisfied during the first series of tests, any alternate criterion to be used to reset the valid failure count to zero requires NRC approval.

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- e. At least once every 31 days by obtaining a sample of fuel oil from the storage tank in accordance with ASTM D2276-78, and verifying that total particulate contamination is less than 10mg/liter when checked in accordance with ASTM D2276-78, Method A, except that the filters specified in ASTM D2276-78, Sections 5.1.6 and 5.1.7, may have a nominal pore size of up to three (3) microns.
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