

# CONTROLLED COPY

## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

- replace with attached
- b. At least once per 31 days and after each operation of the diesel where the period of operation was greater than or equal to 1 hour by checking for and removing accumulated water from the day fuel tanks.
  - c. At least once per 92 days by removing accumulated water the fuel storage tanks.
  - d. At least once per 92 days and from new fuel oil prior to addition to the storage tanks, by obtaining a sample obtained in accordance with ASTM-D270-1975, and by verifying that the sample meets the following minimum requirements and is tested within the specified time limits:
    - 1. As soon as sample is taken or from new fuel prior to addition to the storage tank, as applicable, verify in accordance with the tests specified in ASTM-D975-77 that the sample has:
      - a) A water and sediment content of less than or equal to 0.05 volume percent.
      - b) A kinematic viscosity @ 40°C of greater than or equal to 1.9 centistokes, but less than or equal to 4.1 centistokes.
      - c) A specific gravity as specified by the manufacturer @ 60/60°F of greater than or equal to 0.8299 but less than or equal to 0.8762 or an API gravity @ 60°F of greater than or equal to 30 degrees.
    - 2. Within 1 week after obtaining the sample, verify an impurity level of less than 2 mg of insolubles per 100 ml when tested in accordance with ASTM-D2274-70.\*
    - 3. Within 2 weeks after obtaining the sample, verify that the other properties specified in Table 1 of ASTM-D975-77 and Regulatory Guide 1.137, Position 2.a, are met when tested in accordance with ASTM-D975-77.
  - e. At least once per 18 months, during shutdown, 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.
    - 2. Verifying the diesel generator capability to reject a load of greater than or equal to 1377 kW for DG-1, greater than or equal to 1377 kW for DG-2, and greater than or equal to

\*In lieu of this requirement until May 30, 1990, each of the above required diesel generators shall be demonstrated OPERABLE at least once every 31 days by obtaining a sample of fuel oil from the discharge line of the storage tank transfer pumps in accordance with ASTM D2276-78, and verifying that total particulate contamination is less than 10 mg/liter when checked in accordance with ASTM D2276-78, Method A.

PROPOSED CHANGE TO  
SURVEILLANCE 4.8.1.1.2

- b. By checking for and removing accumulated free water in the diesel fuel tanks as follows:
  - 1. Check for and drain any accumulated water from the day tanks at least once per 31 days and after each occasion when the diesel is operated for greater than 1 hour.
  - 2. Check for accumulated water at the bottom of the storage tank below the transfer pump every 31 days. Initiate the procedure for pumping off accumulated water within 48 hours of detection.
- c. By sampling new diesel fuel in accordance with ASTM D4057-81 prior to addition to the storage tanks and :
  - 1. By verifying in accordance with the tests specified in ASTM D975-81 prior to addition to the storage tanks that the sample has:
    - a. An API gravity of within 0.3 degrees at 60°F or a specific gravity of within 0.0016 at 60/60°F, when compared to the supplier's certificate or an absolute specific gravity at 60/60°F of greater than or equal to 0.83 but less than or equal to 0.89 or an API gravity at 60°F of greater than or equal to 27 degrees but less than or equal to 39 degrees.
    - b. A kinematic viscosity at 40°C of greater than or equal to 1.9 centistokes, but less than or equal to 4.1 centistokes, if gravity was not determined by comparison with the supplier's certification.
    - c. A flash point equal to or greater than 125°F, and
    - d. A water and sediment content of less than or equal 0.05 volume percent per ASTM D1796-83 or a Clear and Bright appearance with proper color when tested in accordance with ASTM D4176-82.
  - 2. By verifying within 31 days of obtaining the sample that the other properties specified in Table 1 of ASTM D975-81 are met when tested in accordance with ASTM D975-81 except that the analysis for sulfur may be performed in accordance with ASTM D1552-79 or ASTM D2622-82.
- d. By obtaining a sample, at least once every 31 days of fuel oil from the storage tanks in accordance with ASTM D2276-78, and verifying within 1 week after obtaining the sample that the total particulate contamination is less than 10 mg/liter when checked in accordance with ASTM D2276-78, Method A.

**Subject: REQUEST FOR AMENDMENT TO TS**  
**SURVEILLANCE REQUIREMENT 4.8.1.1.2**

DATE 30 MARCH, 1990

GIVEN under my hand and seal this 30<sup>th</sup> day of March 1990.

Residing at Richland, WA  
My commission expires 7/14/91



