

Table 3.7-3

SAFETY RELATED HYDRAULIC SNUBBERS\*

SNUBBER NO.	SYSTEM SNUBBER INSTALLED ON, LOCATION** AND ELEVATION		ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE**** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)
Emergency Feedwater System					
EFH-14U	RB	115'-0"	I	No	No
EFH-14L	RB	115'-0"	I	No	No
EFH-15U	RB	115'-0"	I	No	No
EFH-15L	RB	115'-0"	I	No	No
EFH-27	RB2	145'-9"	I	Yes	Yes
EFH-28	RB2	145'-9"	I	Yes	Yes
EFH-92	IB	140'-0"	A	No	No
EFH-93	IB	131'-8"	A	No	No
EFH-94	IB	131'-8"	A	No	No
EFH-95	IB	140'-0"	A	No	No
EFH-96	IB	141'-3"	A	No	No
EFH-106	IB	141'-3"	A	No	No
EFH-107	IB	141'-3"	A	No	No
EFH-108	IB	141'-3"	A	No	No
EFH-109	IB	133'-0"	A	No	No
EFH-110	IB	133'-0"	A	No	No
EFH-141	IB	126'-6"	A	No	No
EFH-143	IB	133'-6"	A	No	No
EFH-144	IB	141'-3"	A	No	No
EFH-534	IB	109'-0"	A	No	No
EFH-541L	IB	109'-0"	A	No	No
EFH-541U	IB	109'-0"	A	No	No
EFH-543	IB	109'-0"	A	No	No

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## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

4. At least once per 18 months, by verifying that the battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for 1 hour when the battery is subjected to a battery service test.
  5. At least once per 60 months, by verifying that the battery capacity is at least 80% of the manufacturer's rating when subjected to a performance discharge test. This performance discharge test shall be performed subsequent to the satisfactory completion of the required battery service test.
- 4.8.1.1.2 Each diesel generator shall be demonstrated OPERABLE:
- a. At least once per 31 days on a STAGGERED TEST BASIS by:
    1. Verifying the fuel level in the day fuel tank,
    2. Verifying the fuel level in the fuel storage tank,
    3. Verifying the fuel transfer pump can be started and transfers fuel from the storage system to the day tank,
    4.
      - a. Verifying the diesel starts from ambient condition and accelerates to at least 900 rpm in less than or equal to 10 seconds, \* or
      - b. Verifying the diesel starts and can be accelerated to at least 900 RPM,
    5. Verifying the generator is synchronized, loaded to greater than or equal to 1500 kw, and operates for greater than or equal to 60 minutes, and
    6. Verifying the diesel generator is aligned to provide standby power to the associated emergency busses.
  - b. At least once each 92 days by verifying that a sample of diesel fuel from the fuel storage tank is within the acceptable limits specified in Table 1 of ASTM D975-68 when checked for viscosity, water and sediment.
  - c. 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,

\*The diesel generator start (10 seconds) from ambient conditions shall be performed at least once per 184 days in these surveillance tests. All other engine starts, for the purpose of this surveillance testing may be preceded by an engine prelube period and/or other warmup procedures recommended by the manufacturer so that mechanical stress and wear on the diesel engine is minimized.

### 3/4.8 ELECTRICAL POWER SYSTEMS

#### BASFS

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The OPERABILITY of the A.C. and D.C. power sources and associated distribution systems during operation ensures that sufficient power will be available to supply the safety related equipment required for 1) the safe shutdown of the facility and 2) the mitigation and control of accident conditions within the facility. The minimum specified independent and redundant A.C. and D.C. power sources and distribution systems satisfy the requirements of General Design Criterion 17 of Appendix "A" to 10 CFR 50.

The ACTION requirements specified for the levels of degradation of the power sources provide restriction upon continued facility operation commensurate with the level of degradation. The OPERABILITY of the power sources are consistent with the initial condition assumptions of the safety analyses and are based upon maintaining at least one of each of the onsite A.C. and D.C. power sources and associated distribution systems OPERABLE during accident conditions coincident with an assumed loss of offsite power and single failure of the other onsite A.C. source.

For the purposes of the monthly diesel generator start testing, "ambient condition" means the diesel engine coolant and oil are being continuously circulated and maintained at a temperature consistent with the manufacturer's recommendations.

The OPERABILITY of the minimum specified A.C. and D.C. power sources and associated distribution systems during shutdown and refueling ensures that 1) the facility can be maintained in the shutdown and refueling condition for extended time periods and 2) sufficient instrumentation and control capability is available for monitoring and maintaining the facility status.