

Industry/TSTF Standard Technical Specification Editorial Change Traveler

WOG-ED-27

Created on 9/5/00

Proposed by North Anna

Description: TSTF-362, which was approved by the NRC on 4/13/2000, reflected changes described in Generic Letter 99-02, Laboratory Testing of Nuclear-Grade Activated Charcoal. In paragraph 5.5.11.c, the Generic Letter deleted the words "greater than or equal to" from the last sentence of the paragraph. This deletion was included in the CEOG and BWOG markups, but was omitted from the WOG, BWR/4 and BWR/6 markups. This editorial change corrects this oversight.

TSTF-362 also revised the Bases of various Specifications to eliminate statements that the filter testing is performed in accordance with Regulatory Guide 1.52. Under this change, filter testing is performed in accordance with the ATSM standard. A Bases reference in NUREG-1431, Specification 3.7.12, ECCS PREACS, was inadvertently omitted from TSTF-362. This editorial change corrects that omission.

Affected Pages	Affected NUREGs
5.0-13	NUREG-1431
5.0-12	NUREG-1434
5.0-12	NUREG-1433
B 3.7-64	NUREG-1431

Owner's Group Review

Owner's Group Action: Approved on 8/30/00

Date Sent to NRC: N/A

NRC Review

NRC Action: No Action Taken

NRC Comments: None

9/14/00

FSH-362

5.5 Programs and Manuals

5.5.8 Ventilation Filter Testing Program (VFTP) (continued)

accordance with [Regulatory Guide 1.52, Revision 2, and ASME N510-1989] at the system flowrate specified below [$\pm 10\%$]:

ESF Ventilation System	Flowrate
[]	[]

- b. Demonstrate for each of the ESF systems that an in-place test of the charcoal adsorber shows a penetration and system bypass < [0.05]% when tested in accordance with [Regulatory Guide 1.52, Revision 2, and ASME N510-1989] at the system flowrate specified below [$\pm 10\%$]:

ESF Ventilation System	Flowrate
[]	[]

- c. Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in [Regulatory Guide 1.52, Revision 2], shows the methyl iodide penetration less than the value specified below when tested in accordance with [ASTM D3803-1989] at a temperature of $\text{\textcircled{86}^{\circ}\text{F}}$ ~~30°C~~ and ~~greater than or equal to~~ the relative humidity specified below:

ESF Ventilation System	Penetration	RH
[]	[<i>see Reviewer's note</i>]	[<i>see Reviewer's note</i>]

Insert 2
↓

Reviewer's Note: Allowable penetration = [100% - methyl iodide efficiency for charcoal credited in staff safety evaluation] / (safety factor).
 Safety factor = [5] for systems with heaters.
 = [7] for systems without heaters.

Insert 1 ↗

(continued)

~~TST-362~~

5.5 Programs and Manuals

5.5.8 Ventilation Filter Testing Program (VFTP) (continued)

- a. Demonstrate for each of the ESF systems that an in-place test of the HEPA filters shows a penetration and system bypass < [0.05]% when tested in accordance with [Regulatory Guide 1.52, Revision 2, and ASME N510-1989] at the system flowrate specified below [+ 10%].

ESF Ventilation System	Flowrate
[]	[]

- b. Demonstrate for each of the ESF systems that an in-place test of the charcoal adsorber shows a penetration and system bypass < [0.05]% when tested in accordance with [Regulatory Guide 1.52, Revision 2, and ASME N510-1989] at the system flowrate specified below [± 10%].

ESF Ventilation System	Flowrate
[]	[]

- c. Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in [Regulatory Guide 1.52, Revision 2], shows the methyl iodide penetration less than the value specified below when tested in accordance with [ASTM D3803-1989] at a temperature of (86°F) ~~(30°C)~~ and greater than or equal to the relative humidity specified below.

(86°F)

Insert 2
↓

ESF Ventilation System	Penetration	RH
[]	See Reviewer's Note	See Reviewer's Note

(continued)

~~TSTT 062~~

5.5 Programs and Manuals

5.5.11 Ventilation Filter Testing Program (VFTP) (continued)

- b. Demonstrate for each of the ESF systems that an inplace test of the charcoal adsorber shows a penetration and system bypass < [0.05]% when tested in accordance with [Regulatory Guide 1.52, Revision 2, and ASME N510-1989] at the system flowrate specified below [$\pm 10\%$].

ESF Ventilation System	Flowrate
[]	[]

- c. Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in [Regulatory Guide 1.52, Revision 2], shows the methyl iodide penetration less than the value specified below when tested in accordance with ~~ASTM D3803-1989~~ at a temperature of ~~(30°C)~~ and ~~greater than or equal to~~ the relative humidity specified below.

(86°F)

ESF Ventilation System	Penetration	RH
[]	[See Reviewer's Note]	[See Reviewer's Note]

Insert 2

~~Reviewer's Note: Allowable penetration = [100% - methyl iodide efficiency for charcoal credited in staff safety evaluation] / (safety factor).
Safety factor = [5] for systems with heaters.
= [7] for systems without heaters.~~

Insert 1

- d. Demonstrate for each of the ESF systems that the pressure drop across the combined HEPA filters, the prefilters, and the charcoal adsorbers is less than the value specified below when tested in accordance with [Regulatory Guide 1.52,

(continued)

WOG-EO-27

BASES

ACTIONS

B.1 and B.2 (continued)

MODE 3 within 6 hours, and in MODE 5 within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required unit conditions from full power conditions in an orderly manner and without challenging unit systems.

SURVEILLANCE
REQUIREMENTS

SR 3.7.12.1

Standby systems should be checked periodically to ensure that they function properly. As the environment and normal operating conditions on this system are not severe, testing each train once a month provides an adequate check on this system. Monthly heater operations dry out any moisture that may have accumulated in the charcoal from humidity in the ambient air. [Systems with heaters must be operated ≥ 10 continuous hours with the heaters energized. Systems without heaters need only be operated for ≥ 15 minutes to demonstrate the function of the system.] The 31 day Frequency is based on the known reliability of equipment and the two train redundancy available.

SR 3.7.12.2

This SR verifies that the required ECCS PREACS testing is performed in accordance with the [Ventilation Filter Testing Program (VFTP)]. ~~The ECCS PREACS filter tests are in accordance with Reference 4.~~ The [VFTP] includes testing HEPA filter performance, charcoal adsorbers efficiency, minimum system flow rate, and the physical properties of the activated charcoal (general use and following specific operations). Specific test Frequencies and additional information are discussed in detail in the [VFTP].

SR 3.7.12.3

This SR verifies that each ECCS PREACS train starts and operates on an actual or simulated actuation signal. The [18] month Frequency is consistent with that specified in Reference 4.

(continued)
