

Enclosure 1

Joseph M. Farley Nuclear Plant
Control Room, Penetration Room, and Containment Purge Filtration Systems
and Radiation Monitoring Instrumentation
Technical Specification Changes

Unit 1 & 2 Corrected Typed Technical Specification Pages

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample, obtained in accordance with ASME N510-1989* and tested in accordance with ASTM D3803-1989, meets the laboratory testing criterion of greater than or equal to 95% efficiency when tested with methyl iodide at 30°C and 95% relative humidity.
 3. Verifying a system flow rate of 5000 cfm +20% to -10% during system operation when tested in accordance with ASME N510-1989*.
- c. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of a representative carbon sample, obtained in accordance with ASME N510-1989* and tested in accordance with ASTM D3803-1989, meets the laboratory testing criterion of greater than or equal to 95% efficiency when tested with methyl iodide at 30°C and 95% relative humidity.
- d. At least once per 18 months by:
1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks of less than 2.6 inches Water Gauge while operating the system at a flow rate of 5000 cfm +20% to -10%.
 2. Verifying that the system starts on a Phase B Isolation test signal.
- e. At least once per 36 months on a STAGGERED TEST BASIS by verifying one PRF train can maintain a pressure \leq -0.125 inches water gauge relative to adjacent areas during the post LOCA mode of operation at a flow rate of \leq 6000 cfm.
- f. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove greater than or equal to 99.5% of the DOP when they are tested in-place in accordance with ASME N510-1989* while operating the system at a flow rate of 5000 cfm +20% to -10%.
- g. After each complete or partial replacement of a charcoal adsorber bank by verifying that the charcoal adsorbers remove greater than or equal to 99.5% of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ASME N510-1989* while operating the system at a flow rate of 5000 cfm +20% to -10%.

* The FNP Final Safety Analysis Report identifies the relevant surveillance testing requirements.

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample, obtained in accordance with ASME N510-1989* and tested in accordance with ASTM D3803-1989, meets the laboratory testing criterion of greater than or equal to 95% efficiency when tested with methyl iodide at 30°C and 95% relative humidity.
 3. Verifying a system flow rate of 5000 cfm +20% to -10% during system operation when tested in accordance with ASME N510-1989*.
- c. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of a representative carbon sample, obtained in accordance with ASME N510-1989* and tested in accordance with ASTM D3803-1989, meets the laboratory testing criterion of greater than or equal to 95% efficiency when tested with methyl iodide at 30°C and 95% relative humidity.
- d. At least once per 18 months by:
1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks of less than 2.6 inches Water Gauge while operating the system at a flow rate of 5000 cfm +20% to -10%.
 2. Verifying that the system starts on a Phase B Isolation test signal.
- e. At least once per 36 months on a STAGGERED TEST BASIS by verifying one PRF train can maintain a pressure ≤ -0.125 inches water gauge relative to adjacent areas during the post LOCA mode of operation at a flow rate of ≤ 6000 cfm.
- f. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove greater than or equal to 99.5% of the DOP when they are tested in-place in accordance with ASME N510-1989* while operating the system at a flow rate of 5000 cfm +20% to -10%.
- g. After each complete or partial replacement of a charcoal adsorber bank by verifying that the charcoal adsorbers remove greater than or equal to 99.5% of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ASME N510-1989* while operating the system at a flow rate of 5000 cfm +20% to -10%.

* The FNP Final Safety Analysis Report identifies the relevant surveillance testing requirements.

Enclosure 2

Joseph M. Farley Nuclear Plant
Control Room, Penetration Room, and Containment Purge Filtration Systems
and Radiation Monitoring Instrumentation
Technical Specification Changes

Units 1&2 Corrected Marked-Up Technical Specification Pages

PLANT SYSTEMS
SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with ~~Section 13 of ASME N510-1989~~ ^{ASME N510-1989} meets the laboratory testing criterion of greater than or equal to 95% efficiency when tested with methyl iodide at 60°C and 90% relative humidity. (95) (95) (30)
3. Verifying a system flow rate of 5000 ~~cfm ± 10%~~ ^{cfm ± 10%} during system operation when tested in accordance with ASME N510-1989*. (30)

and tested in accordance with ASTM D3803-1989,

- c. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with ~~Section 13 of ASME N510-1989~~ ^{ASME N510-1989} meets the laboratory testing criterion of greater than or equal to 95% efficiency when tested with methyl iodide at 60°C and 90% relative humidity. (95) (95) (30) (95)
- d. At least once per 18 months by: (5000 cfm ± 20% to -10%)

1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks of less than ~~4~~ ^{2.6} inches Water Gauge while operating the system at a flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 10%}. (2.6)
2. Verifying that the system starts on a Phase B Isolation test signal.
3. ~~Verifying that the heaters dissipate 25 ± 2.5 kw when tested in accordance with ASME N510-1989.~~

- e. At least once per 36 months on a STAGGERED TEST BASIS by verifying (95)
- f. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove greater than or equal to 99.5% of the DOP when they are tested in-place in accordance with ~~Section 10 of ASME N510-1989~~ ^{ASME N510-1989} while operating the system at a flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 10%}. (95)

5000 cfm ± 20% to -10%

- g. After each complete or partial replacement of a charcoal adsorber bank by verifying that the charcoal adsorbers remove greater than or equal to 99.5% of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ~~Section 12 of ASME N510-1989~~ ^{ASME N510-1989} while operating the system at a flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 10%}.

* The FNP Final Safety Analysis Report identifies the relevant surveillance testing requirements.

FNP will revise the maximum pressure drop for this surveillance requirement in a June 1997 technical specification submittal as committed in Southern Nuclear's letter dated April 23, 1997.

+ Mechanical heater surveillance testing per ASME N510-1989 will be performed no later than completion of the Unit 1 15th refueling outage scheduled for the fall of 1998.

FARLEY-UNIT 1

3/4 7-19

AMENDMENT NO. 127

One PAF train can maintain a pressure ≤ -0.125 inches water gauge relative to adjacent areas during the post LOCA mode of operation at a flow rate of ≤ 6000 cfm.

PLANT SYSTEMS
SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with ~~Section 13 of ASME N510-1989~~ ^{ASME 1989*} meets the laboratory testing criterion of greater than or equal to ~~95%~~ ⁹⁵ efficiency when tested with methyl iodide at ~~30°C~~ ³⁰ and ~~70%~~ ⁷⁰ relative humidity.

and tested in accordance with ASTM D3803-1989,

3. Verifying a system flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 20% to -10%} during system operation when tested in accordance with ASME N510-1989*.

c. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with ~~Section 13 of ASME N510-1989~~ ^{ASME 1989*} meets the laboratory testing ~~criterion~~ ^{Criterion} of greater than or equal to ~~95%~~ ⁹⁵ efficiency when tested with methyl iodide at ~~30°C~~ ³⁰ and ~~70%~~ ⁷⁰ relative humidity.

d. At least once per 18 months by:

1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks of less than 6 inches Water Gauge while operating the system at a flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 20% to -10%} ~~##~~ ^{2.6}

2. Verifying that the system starts on a Phase B Isolation test signal.

3. ~~Verifying that the heaters dissipate 25 ± 2.5 kw when tested in accordance with ASME N510-1989*~~

e. At least once per 36 months on a STAGGERED TEST BASIS by verifying

ff. After each complete or partial replacement of a HEPA filter bank by verifying that the HEPA filter banks remove greater than or equal to 99.5% of the DOP when they are tested in-place in accordance with ~~Section 10 of ASME N510-1989~~ ^{ASME 1989*} while operating the system at a flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 20% to -10%}

g. After each complete or partial replacement of a charcoal adsorber bank by verifying that the charcoal adsorbers remove greater than or equal to 99.5% of a halogenated hydrocarbon refrigerant test gas when they are tested in-place in accordance with ~~Section 12 of ASME N510-1989~~ ^{ASME 1989*} while operating the system at a flow rate of ~~5000 cfm ± 10%~~ ^{5000 cfm ± 20% to -10%}

* The FNP Final Safety Analysis Report identifies the relevant surveillance testing requirements.

FNP will revise the maximum pressure drop for this surveillance requirement in a June 1987 technical specification submittal as committed in Southern Nuclear's letter dated April 23, 1987.

← Mechanical heater surveillance testing per ASME N510-1989 will be performed as later than completion of the Unit 3 12th refueling outage scheduled for the spring of 1988.

One PAF train can maintain a pressure ≤ -0.125 inches water gauge relative to adjacent areas during the post LOCA mode of operation at a flow rate of ≤ 6000 cfm.

Enclosure 3

Joseph M. Farley Nuclear Plant
Control Room, Penetration Room, and Containment Purge Filtration Systems
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Technical Specification Changes

Units 1&2 Corrected Typed Improved Technical Specification Pages

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 < 0.5% when tested in accordance ASME N510-1989 at the system flowrate specified below.

<u>ESF Ventilation System</u>	<u>Flowrate (CFM)</u>
CREFS Recirculation	2,000 ± 10%
CREFS Filtration	1,000 ± 10%
CREFS Pressurization	300 +25% to -10%
PRF Post LOCA Mode	5,000 +20% to -10%

- c. Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in ASME N510-1989, 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.

<u>ESF Ventilation System</u>	<u>Penetration</u>	<u>RH</u>
CREFS Recirculation	2.5%	70%
CREFS Filtration	2.5%	70%
CREFS Pressurization	0.5%	70%
PRF Post LOCA Mode	5%	95%

NOTE: CREFS Pressurization methyl iodide penetration limit is based on a 6-inch bed depth.

- d. Demonstrate for each of the ESF systems that the pressure drop across the combined HEPA filters and the charcoal adsorbers is less than the value specified below when tested in accordance with ASME N510-1989 at the system flowrate specified below.

<u>ESF Ventilation System</u>	<u>Delta P (in. water gauge)</u>	<u>Flowrate (CFM)</u>
CREFS Recirculation	2.3	2,000 ± 10%
CREFS Filtration	2.9	1,000 ± 10%
CREFS Pressurization	2.2	300 +25% to -10%
PRF Post LOCA Mode	2.6	5,000 +20% to -10%

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Enclosure 4

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Technical Specification Changes

Units 1&2 Corrected Mark-Up Improved Technical Specification Pages

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 < 0.5% when tested in accordance ASME N510-1989 at the system flowrate specified below $\pm 10\%$:

<u>ESF Ventilation System</u>	<u>Flowrate (CFM)</u>
CREFS Recirculation	2,000 $\pm 10\%$
CREFS Filtration	1,000 $\pm 10\%$
CREFS Pressurization	300 $+25\%$ to -10%
PRF Post LOCA Mode	5,000 $+20\%$ to -10%

- c. Demonstrate for each of the ESF systems that a laboratory test of a sample of the charcoal adsorber, when obtained as described in ASME N510-1989, shows the methyl iodide penetration less than the value specified below when tested in accordance with ASTM D3803-1989 at a temperature of $\leq 30^\circ\text{C}$ and greater than or equal to the relative humidity specified below.

<u>ESF Ventilation System</u>	<u>Penetration</u>	<u>RH</u>
CREFS Recirculation	2.5%	70%
CREFS Filtration	2.5%	70%
CREFS Pressurization	0.5%	70%
PRF Post LOCA Mode	5 $\pm 10\%$	95%

NOTE: CREFS Pressurization methyl iodide penetration limit is based on a 6-inch bed depth.

- d. Demonstrate for each of the ESF systems that the pressure drop across the combined HEPA filters and the charcoal adsorbers is less than the value specified below when tested in accordance with ASME N510-1989 at the system flowrate specified below $\pm 10\%$.

<u>ESF Ventilation System</u>	<u>Delta P (in. water guage)</u>	<u>Flowrate (CFM)</u>
CREFS Recirculation	2.3	2,000 $\pm 10\%$
CREFS Filtration	2.9	1,000 $\pm 10\%$
CREFS Pressurization	2.2	300 $+25\%$ to -10%
PRF Post LOCA Mode	2.6	5,000 $+20\%$ to -10%

(continued)