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Northern States Power Company ATTN: Mr. L. O. Mayer, Director of Nuclear Support Services 414 Nicollet Mall Minneapolis, Minnesota 55401

Gentlemen:

Docket No. 50-263

Our review of your Technical Specifications related to installed filter systems indicates a need for additional Limiting Conditions for Operation (LCO) and Surveillance Requirements. These are required in order to ensure high confidence that the systems will function reliably, when needed, at a degree of efficiency equal to or better than that assumed in the accident analyses.

In order to assist you in the preparation of appropriate revisions, we have prepared model Technical Specifications which include LCO's, Surveillance Requirements and Bases for the Standby Cas Treatment System at Monticello Nuclear Generating Plant.

You are requested to submit by no later than 45 days from the date of this letter an application for amendment to your license that would change the Technical Specifications related to installed filter systems so as to be in conformance with the requirements in the enclosed model Technical Specifications.

Sincerely.

Original signed by Dennis L. Ziemann

Dennis L. Ziemann, Chief Operating Reactors Branch #2 Directs ate of Licensing

Inclosure: Model Technical Specifications

cc : See next page

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# 3.7 LIMITING CONDITIONS FOR OPERATION

### 4.7 SURVEILLANCE REQUIREMENTS

### B. Standby Gas Treatment System

- Except as specified in Specification 3.7.B.3 below, both circuits of the standby gas treatment system and the diesel generators required for operation of such circuits shall be operable at all times when secondary containment 'tegrity is required.
- 2. a. The results of the in-place cold DO? and halogenated hydrocarbon tests at design flows on HEPA filters and charcoal adsorber banks shall show >99% DOP removal and > 99% halogenated hydrocarbon removal.
  - b. The results of laboratory carbon sample analysis shall show >95% radioactive methyl iodide removal at a velocity within 20 percent of actual system design, 0.5 to 1.5 mg/m³ inlet methyl iodide concentration, >70% R.H. and >190°F.
  - c. Fans shall be shown to operate within +10% design flow.

# B. Standby Gas Treatment System

- At least once per operating cycle, the following conditions shall be demonstrated.
  - a. Pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 6 inches of water at the system design flow rate.
  - b. Inlet heater input is capable of reducing R.H. from 100 to 70% R.H.
  - c. Air distribution is uniform within 20% across HEPA filters and charcoal adsorbers.
- 2. a. The tests and sample analysis of Specification 3.7.8.2 shall be performed initially and at least once per year for standby service or after every 720 hours of system operation and following significant painting, fire or chemical release in any ventilation zone communicating with the system.
  - b. Cold DOP testing shall be performed after each complete or partial replacement of the HEPA filter bank or after any structural maintenance on the system housing.

# 4.0 SURVEILLANCE REQUIREMENTS

- c. Halogenated hydrocarbon testing shall be performed after each complete or partial replacement of the charcoal adsorber bank or after any structural maintenance on the system housing.
- d. Each circuit shall be operated with the heaters on at least 10 hours every month.
- e. Test sealing of gaskets for housing doors downstream of the HEPA filters and charcoal adsorbers shall be performed at and in conformance with each test per ormed for compliance with Specification 4.7.8.2.a and Specification 3.7.8.2.a.
- System drains where present shall be inspected quarterly for adequate water level in loop-seals.
- a. At least once per operating cycle automatic initiation of each branch of the standby gas treatment system shall be demonstrated.
  - b. At least once per operating cycle manual operability of the bypass valve for filter cooling shall be demonstrated.
  - c. When one circuit of the standby gas treatment system becomes inoperable the other circuit shall be demonstrated to be operable immediately and daily thereafter.

- 3. From and after the date that one circuit of the standby gas treatment system is made or found to be inoperable for any reason, reactor operation and fuel handling is permissible only during the succeeding seven days unless such circuit is sooner made operable, provided that during such seven a ys all active components of the other standby gas treatment circuit shall be operable.
- 4. If these conditions cannot be met, procedures shall be initiated immediately to establish reactor conditions for which the standby gas treatment system is not required.

# Standby Gas Treatment System

are designed to automatically start upon containment isolation and to maintain the reactor building pressure to the design negative pressure so that all leakage should be in-leakage. Should one system fail to start, the redundant system is designed to start automatically. Each of the two fans has 100 percent capacity. The standby gas treatment system is designed to filter and exhaust the reactor building atmosphere to stack during secondary containment isolation conditions. Both standby gas treatment system fans

removal efficiency of at least 95 percent for expected accident conditions. If the efficiencies of the HEPA filters and charcoal adsorbers are as specified, the resulting doses will be less than the lo CFR 100 guidelines for the accidents analyzed. Operation of the Jans significantly different from the design flow will change the removal efficiency of the HEPA filters and charcoal adsorbers. environment. The in-place test results should indicate a system leak tightness of less than I percent bypass leakage for the charcoal adsorbers and a HEPA efficiency of at least 99 percent removal of DOP adsorbers. The charcoal adsorbers are installed to reduce the potential release of radiolodine to the High efficiency particulate absolute (HEPA) filters are installed before and after the charcoal adsorbers to minimize potential release of particulates to the environment and to prevent clogging of the iodine The laboratory carbon sample test results should indicate a radioactive methyl iodide

standby gas treatment system is not required. the containment system performance and reactor operation or refueling operation may continue while repairs are being made. If neither circuit is operable, the plant is brought to a condition where Only one of the two standby gas treatment systems is needed to cleanup the reachur building atmosphere upon containment isolation. If one system is found to be inoperable, there is no immediate threat to

# 7.8. Standby Gas Treatment System

at least once per operating . Te to show system performance capability. amounts of foreign matter. Heater capability, pressure drop and air distribution should be determined the system design flow rate will indicate that the filters and adsorbers are not clogged by excessive Pressure drop across the combined HEPA filters and charcoal adsorbers of less than 6 inches

thickness of the bed. If test results are unacceptable, all adsorbent in the system shall be replaced with an adsorbent qualified according to Table I of Regulatory Guide 1.52. The replacement tray for the adsorber tray removed for the test should meet the same adsorbent quality. Tests of the HEPA filters with DOP aerosol shall be performed in accordance to ARSI MIOI.1-1972. Any HEPA filters found defective shall be replaced with filters qualified pursuant to Regulatory Position C.3.d of Regulatory Guide 1.52. at least two one adsorber tray, emptying of one bed from the tray, mixing the adsorbent thoroughly and obtaining Standard M-16-II. The charcoal adsorber efficiency test precedures should allow for the removal of be performed in accordance with USAEC Report DP-1082. Indine removal efficiency tests shall follow RDT can perform as evaluated. Tests of the charcoal adsorbers with halogenated hydrocarbon refrigerant shall frequency of tests and samples. Each sample should be at least two inches in diameter and a length equal to the e analysis are necessary to show that the HEPA filters and charcoal adsorbers

capacity. Operation of the heaters will prevent moisture buildup in the filters and adsorber system All elements of the heater should be demonstrated to be functional and operable during the test of heater

With doors closed and fan in operation, DOP acrosol shall be sprayed externally along the full linear periphery of each respective door to check the gasket seal. Any detection of DOP in the fan exhaust shall be considered an unacceptable test result and the gaskets repairs and test repeated.

If system drains are present in the filter/adsorber banks, loop-seals must be used with adequate water prevent by-pass leakage from the banks.

If significant painting, fire or chemical release occurs such that the HEPA filter or charcoal adsorber could become contaminated from the fumes, chemicals or foreign material, the same tests and sample analysis shall be performed as required for operational use. The determination of significant shall be made by to making this determination. the operator on duty at the time of the incident. Knowledgeable staff members should be consulted prior

must be dested daily. Demonstration of the automatic initiation capability and operability of filter cooling is necessary to assure system performance capability. If one standby gas treatment system is inoperable, the other system or refueling operation This substantiates the availability of the operable system and thus reactor operation can continue for a limited period of time.