

DUKE POWER COMPANY

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October 29, 1985

Dr. J. Nelson Grace, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Subject: McGuire Nuclear Station  
Docket Nos. 50-369 and 50-370

Dear Dr. Grace:

In response to the confirmation of action letter dated October 23, 1985, Item 3, concerning testing of control room ventilation system (VC) testing, Duke has reviewed past test records and the results of this review are presented below. The item stated:

"Review past test records to verify that all prerequisite tests pursuant to ANSI 510-1975 for the control room ventilation system have been conducted. Advise NRC by October 29, 1985, of the results of this review."

Past records have been reviewed. All tests identified in ANSI N510-1975 were conducted with two exceptions, the Air Distribution Test Across HEPA Filter Bank, and the Air-Aerosol Mixing Uniformity Test.

The Air Distribution Test Across HEPA Filter Bank, Section 8.3.2 of the standard is to ensure that each individual airflow velocity  $V_i$ , is within  $\pm 20\%$  of the average airflow velocity  $\bar{V}$ . Equation (4) of this section gives the average airflow velocity:

$$\bar{V} = \frac{\sum_{i=1}^n V_i}{n}$$

The McGuire VC system contains only one HEPA filter, thus  $n = 1$ ,  $\bar{V} = V_i$ , and the deviation from the average is zero. Based upon this, Duke Power deemed the test unnecessary.

The second test not conducted in accordance with ANSI N510-1975 was the Air-Aerosol Mixing Uniformity Test. This test was deemed unnecessary by the contractor and Duke Power based upon the updated standard, ANSI/ASME N510-1980 which had been issued prior to system testing. The contractor was Mr. Fred Leckie of Nuclear Containment Systems, Chairman of ANSI N510-1975 and committee member of ANSI N510-1980. Section 9 of the standard concerns the Air-Aerosol

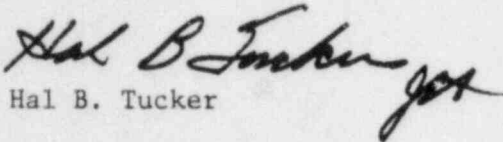
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Dr. J. Nelson Grace, Regional Administrator  
October 29, 1985  
Page 2

Test. Step 4 of Section 9.4, Procedure, of the 1980 standard contains the statement, "This test is not required for systems containing a single HEPA filter". The McGuire VC System contains a single HEPA filter, thus this test was deleted based upon the updated standard.

Very truly yours,

  
Hal B. Tucker

JBD/JMB/hrp

cc: Darl Hood, Project Manager  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. W. T. Orders  
NRC Resident Inspector  
McGuire Nuclear Station