



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37384-2000

August 2, 2005

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of)
Tennessee Valley Authority)

Docket Nos. 50-327
50-328

**SEQUOYAH NUCLEAR PLANT (SQN) - UNITS 1 AND 2 - FACILITY
OPERATING LICENSE DPR-77 and DPR-79 – TECHNICAL SPECIFICATION
(TS) 3.3.3.10 - SPECIAL REPORT 2005-01**

The enclosed special report provides details concerning the waste gas analyzer.
The waste gas analyzer was inoperable for greater than 30-days. This report is
being submitted in accordance with TS 3.3.3.10.

If you have any questions concerning this submittal, please telephone me at
(423) 843-7170 or J. D. Smith at (423) 843-6672.

Sincerely,

P. L. Pace
Manager, Site Licensing and
Industry Affairs

Enclosure
cc: See page 2.

ENCLOSURE

SEQUOYAH NUCLEAR PLANT (SQN) UNITS 1 and 2 SPECIAL REPORT 2005-01

Description of Condition

On May 17, 2005, the waste disposal system waste gas analyzer was declared inoperable. The analyzer microprocessor controls appear to have failed. The analyzer would not properly display the data. On June 8, 2005, a modification was performed to install a temporary analyzer. On June 10, 2005, during calibration of the temporary analyzer, the analyzer could not be calibrated. The hydrogen and oxygen cells were regenerated to attempt to calibrate the analyzer. Additional trouble shooting was performed and it was determined that the hydrogen cell had to be rebuilt. Following the refurbishment of the hydrogen cell, the analyzer was calibrated and returned to service on June 22, 2005.

Cause of Condition

The cause of the inoperable monitor was equipment failure. The cause of the failure to return the waste gas analyzer to service within 30 days was the unexpected failure of the hydrogen cell.

Immediate Actions

In accordance with Technical Specification Limiting Condition for Operation 3.3.3.10 Action Statement (a), operation of the waste gas disposal system continued with grab samples taken and analyzed.