Public Service Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

50-267

July 2, 1984
Fort St. Vrain
Unit #1
P-84191

Mr. E. H. Johnson, Chief
Reactor Project Branch 1
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

SUBJECT: NUREG-0737 Item ~~II.F.1.1~~,
Noble Gas Accident Monitoring
Instrumentation

REF: 1) G-84110, E.H. Johnson to
O.R. Lee, Dated April 3, 1984
2) P-84131, D.W. Warembourg to
E.H. Johnson, Dated May 3, 1984

Dear Mr. Johnson:

In accordance with our action plan as described in REFERENCE 2, we have completed our evaluation of how best to address your concerns as raised in REFERENCE 1. In performing our evaluation, we examined the feasibility of purchasing a new high range monitor, amending the semiportable instrumentation, or amending the permanent monitoring system on the Reactor Plant Exhaust Stack. We have elected to pursue the third course of action.

Simply stated, our plan is to dilute the Reactor Plant Exhaust Stack discharge by a factor of approximately 200 using a clean source of air prior to reaching the monitor. This dilution will enable us to evaluate 10^3 µci/cc noble gas concentrations, while at the same time enabling us to utilize our existing instrumentation and calibration procedures. We anticipate a three decade range overlap on our permanent noble gas stack monitors following this change. At this point in time the exact mechanics of the control system are being refined and will ensure that the integrity and representativeness of the sampling system remain intact.

We feel that this approach will satisfy your concerns in that we will be able to evaluate 10^3 µci/cc of noble gas, utilize existing calibration procedures, take advantage of our control room readout capabilities, and reduce projected personnel exposures in a post-accident environment.

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Based on discussions with Nuclear Engineering Division personnel, we feel that our dilution system will be installed and operable by the 4th Refueling Cycle. If our intended actions do not address your concerns or if you have additional questions on our proposed plan, please contact Mr. Ted Borst of my staff at (303) 571-7436, extension 203.

Very truly yours,

Don Warembourg by Milt McBride

Don W. Warembourg
Manager, Nuclear Production

DWW/plb