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Docket No. 70-36
License SNM-33

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August 26, 1994

Gary L. Shear, Chief
Fuel Cycle and Decommissioning Branch
U. S. Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

SUBJECT: EFFLUENT MONITORING REPORT - JANUARY THROUGH JUNE, 1994

Dear Mr. Shear:

In accordance with 10 CFR 70.59, this letter transmits effluent monitoring data for facilities operated under license SNM-33. This effluent release data covers the period January 1, 1994 through June 30, 1994.

	1st Quarter (Uranium)		2nd Quarter (Uranium)	
Airborne Releases:	74 grams	150 µCi	21 grams	41 µCi
Liquids Releases:	42 grams	84 µCi	64 grams	130 µCi

The specific activity of 2.0 µCi/gram applied to the gram quantities above is based upon the nominal enrichment during the reporting period.

If you have any questions concerning this matter, please do not hesitate to call me at (314) 937-4691 ext. 399.

Cordially yours,

Robert W. Sharkey
Manager, Regulatory Compliance

RWS/sld
RC/10228

cc: R. M. Bernero, Director
Office of NMSS
U.S. Nuclear Regulatory Commission
Washington DC 20555

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Combustion Engineering, Inc.
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CHAPTER 5 ENVIRONMENTAL PROTECTION

5.1 Effluent Control Systems

5.1.1 ALARA Commitment

Gaseous, liquid, and solid waste streams shall be handled such that radioactivity exposures to plant workers, visitors, and the general public are kept as low as reasonably achievable.

5.1.2 Air and Gaseous Effluents

Exhaust air effluents from process areas and process equipment shall be sampled continuously during operations. These stack samples shall be changed at least weekly. Samples shall be counted after suitable delay for decay of radon daughters.

The control limit for gross alpha activity in exhaust air effluent in the accessible unrestricted area shall be $5 \times 10^{-14} \mu Ci/ml$. If the control limit is exceeded, averaged over a two week period, an investigation shall be conducted and corrective action taken. A further control limit for total plant exhaust stack effluents shall be 150 μCi per calendar quarter, based upon insoluble uranium compounds. If this control limit is exceeded, a report shall be prepared and submitted to the commission within 30 days which identifies the cause and the corrective actions taken or to be taken.

5.1.3 Liquid Effluents

Levels of uranium in liquid effluents shall be measured by representative grab sampling of batch discards, by proportional sampling of continuous discharges, or both. Samples shall be collected at or prior to the point of discharge from the waste handling system. Samples shall be analyzed for uranium by using any of the following methods: alpha activity measurements, uranium fluorimetry, kinetic phosphorescence analysis, mass spectroscopy, beta measurements, gamma spectroscopy, or neutron activation analysis.

The control limits for alpha and beta activity in liquid effluents shall be:

Alpha - $3.0 \times 10^{-7} \mu Ci/ml$ average
Beta - $5.0 \times 10^{-6} \mu Ci/ml$ average

The above control limits for alpha and beta shall apply at the site boundary and are average values for the year. If these control limits are exceeded, averaged over a calendar quarter, an investigation shall be conducted and corrective action taken.

5.2 Environmental Monitoring

Location of air particulate, soil, vegetation, well water, surface water and liquid effluent sampling stations shall be established and documented.