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October 29, 1985

Secretary of the Commission
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: Docketing and Service Branch

Dear Secretary of the Commission:

Contained in 10CFR Part 20 are sections 103 and 106 which stipulate regulations for suitable measurements of concentrations of radioactive materials in air for detecting and evaluating airborne radioactivity in restricted and unrestricted areas. Regulatory Guide 8.25, "Calibration and Error Limits for Air Sampling Instruments for Total Volume of Air Sampled," provides guidelines suitable to the NRC for implementing part of the Commission's regulations. In light of this, is there a standard for determining the effectiveness of sorbents (impregnated activated carbons) used as the sampling media for trapping out radioactive iodine and radioactive methyl iodide gas species also used in air sampling equipment? Furthermore, is there a standard for actually testing the sampling cartridge itself as well as guidelines as to the size of the sampling cartridge containing this sorbent? Any information currently available (Regulatory Guides, NUREG specifications, etc.) which have been or intend to be published in this area would be most appreciated.

Sincerely,

Dominick Frustaci

Dominick Frustaci
Project Engineer

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