



Consolidated Edison Company of New York, Inc.

Indian Point Nos. 1, 2&3

Docket Nos. 50-3, 50-247 & 50-286

Attachment to LER 80-010/04X-0

This report of an anomalous measurement at one of our environmental sampling locations in the vicinity of Indian Point Station is being made as a followup to the telephone report Mr. Stephen Sadlon gave to your Mr. Friedman on September 10, 1980. The Environmental Technical Specification Requirements (ETSR) for Indian Point Nos. 1, 2&3 Section 5.6.2.2. requires, in part, that if a confirmed measured level of radioactivity in any environmental medium exceeds ten (10) times the control station value, a written report be submitted within ten (10) days. In the event a control station does not exist for a particular medium, "historical" levels for the particular location can be used in place of control station values. Our procedure, NEM-A-07, "Notification, Investigation, and Reporting of Abnormal Activity in Environmental Samples", defines such "historical" values for various media and also lists the action levels where NRC notification is required.

Teledyne Isotopes Inc., our contracting laboratory, reported Cs-137 activity in a leafy green vegetable sample from a garden on site, 0.25 mi. SE of the plant. The level of activity exceeded ten times "historic" levels. The sample which was collected on July 23, 1980 was found to contain  $1.76 \pm 0.18 \times 10^{-6}$  uCi/gm of Cs-137 as determined by germanium-lithium, Ge (Li) analysis. The same sample was re-analyzed by Teledyne Isotopes Inc., as requested by Con Edison. On September 10, 1980, Teledyne Isotopes Inc. reported an activity of  $1.45 \pm 0.15 \times 10^{-6}$  uCi/gm of Cs-137, confirming the original result.

An investigation, which included a review of present and past sample analyses and plant effluent releases, was initiated to determine the cause of this anomalous measurement. Plant releases during the first half of this year were consistent with those which have been observed in the past and exhibited no abnormalities which could account for the anomalous measurement. A review of leafy green vegetable analysis for the past few years showed Cs-137 activity consistently less than minimum detectable concentrations.

A review of air particulate, precipitation, ground, surface and well waters samples for the year has indicated no positive Cs-137 levels.

A soil sample taken in the vicinity of the location in question indicated Cs-137 activity levels in the  $10^{-7}$  uCi/gm range.

A cabbage taken from the same location was subsequently sent in for analysis on August 14, 1980. Preliminary results indicate a Cs-137 activity level in the  $10^{-7}$  uCi/gm range. The final results activity was not available at this time.

We have also submitted additional leafy green vegetable and soil samples for analysis from the same location.

At this time, it can not be determined if the activity detected was plant related or not. The investigation is continuing pending the analysis of the additional samples. A follow-up report will be submitted.