

UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE
REGION I
970 BROAD STREET
NEWARK, NEW JERSEY 07102

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March 29, 1971

To : File *240c*

Thru: H. W. Crocker, Senior Fuel Facilities Inspector
Region I, Division of Compliance

BACK-UP NOTES TO FORM AEC-592
NUCLEAR DECONTAMINATION CORPORATION
APOLLO, PENNSYLVANIA
LICENSE NO. 37-07031-01

The unannounced inspection conducted on March 15 through 19, 1971 of the licensee's facilities located at Apollo, Pennsylvania resulted in the issuance of an AEC form 592. Noncompliance observed during the inspection was:

- a. Liquid effluents released exceeded the limits of 10 CFR 20 when averaged over a period of one year.
- b. Air effluents discharged were not properly evaluated.
- c. Routine surveys were not performed of the unrestricted areas and the radiation levels exceeded the limits of 10 CFR 20.
- d. Inventory records were not maintained to determine the amount of licensed material being possessed.
- e. Evaluations of the washer sump and liquid waste tank sludge had not been performed to determine the SNM content.
- f. The SNM content of waste shipments had not been determined.

This inspection included a detailed review of the laundry facility regarding the potential buildup of critical quantities of fissile material and material inventories as discussed in a letter dated December 23, 1970, from L. D. Low, Director, Division of Compliance to E. R. Price, Director, Division of State and Licensee Relations.

There were two items of noncompliance observed during the previous inspection of October 7, 1969 regarding bioassay sample analyses and air effluent evaluations. Corrective action was implemented for the bioassay analyses, however, the equipment required for the air effluent evaluations had not been

installed at the time of the present inspection. The licensee intended to implement the corrective measures, however, the item was inadvertently overlooked due to problem areas developing in the NUMEC plants located at Apollo and Leechburg, Pennsylvania.

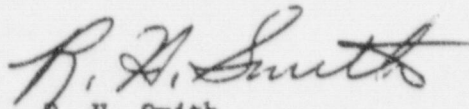
The Nuclear Decontamination Corporation is an affiliate of the Nuclear Materials and Equipment Corporation and Dr. R. R. Chambers serve as President for both Corporations. The laundry has personnel only for operating the laundry equipment and all other required support services are provided by NUMEC.

It appears to the inspector that the primary reason for the noncompliance observed at the facility results from the NUMEC support service responsibilities not being clearly defined. In my opinion Dr. Chambers understands and is aware of the problem areas.

The corrective actions for the items of noncompliance will be reviewed during the next scheduled inspection of NUMEC License No. SNM-145.

The inspector recommends that DML amend License No. 37-7031-1 by providing specific license conditions regarding nuclear safety controls, the health physics program, and the control of effluent releases to the environment.

It is the inspector's opinion that the licensee intends to implement corrective measures for the items of noncompliance.



R. H. Smith
Radiation Specialist