OCT 3 1

Mr. J. R. May
Newport News Industrial Corporation
230 41st Street
Newport News, Virginia 23607

Dear Mr. May:

SUBJECT: ADDITIONAL REQUESTS ON "RADWASTE VOLUME REDUCTION SYSTEM," TOPICAL REPORT EI/NNI-77-7

Enclosed are some additional requests for information on subject topical report. The first three questions in the Enclosure are the result of our review of your responses to our second round of questions on the subject topical report. The last two questions are based on the topical report itself.

We expect to conclude our review once we receive and evaluate satisfactory responses to these questions.

Please provide the information requested in the Enclosure by January 1, 1979. If you will be unable to respond by that date, please provide us with your schedule so that we may adjust the schedule of our review effort.

Sincerely,

Original signed by
Robert Baer
Robert L. Baer, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

Enclosure:
Request for Additional
Information

OCT 3 1978

REQUEST FOR ADDITIONAL INFORMATION

REPORT NUMBER: EI/NNI-77-7
REPORT TITLE: RWR-1™ Radwaste Volume Reduction System *June 24, 1977)
ORIGINATING ORGANIZATION: Energy Incorporated/Newport News Industrial Corporation

1. In your discussion of the sizing of the RWR-1™ System, you conclude that the system has the capacity to handle 980 m^3/year. However, present staff estimates indicate that a maximum of 1350 m^3/year for a 3800 MWt boiling water reactor with deep-bed condensate demineralizers can be expected. Your report should indicate that two RWR-1™ systems would be required to process the 1350 m^3/year of waste.

2. Since you indicate that the radioiodine adsorbent in the offgas system is silver-impregnated gel AC 6120 [illegible] to a depth of six inches, justify your DF of 625. If a DF of 100 is used, what impact does this have on your dose analysis?

3. Justify that your system will operate with radioactive material of the type and activity range encountered in nuclear power plants by providing experimental data which demonstrates your system's performance when processing simulated radioactive waste.

4. Based on the specific design features of the RWR-1 volume reduction system, and using conservative estimates of solid radwaste generation rates for both PWRs and BWRs, provide an estimate of the man-rem associated with each of the following functions; operations, maintenance, and inservice inspection. State the basis, models, and assumptions used to arrive at these values.

5. Indicate on Figure 2-5 (Pg. 44) the expected radiation zone designations for each of the radwaste areas shown.