

SEP 18 1966

DEL:CHM  
40-1066

The Hursh Chemical Company  
1945 East 97th Street  
Cleveland, Ohio 44106

Attention: Miss Marie E. Smith  
Security Officer

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C. E. MacDonald

Gentlemen:

This refers to your hypodermic material application dated July 28, 1966, requesting a license for the processing of Thorium nitrate.

Thorium is a source material and its receipt, possession and use is licensed pursuant to Title 10, Code of Federal Regulations, Part 40, "Licensing of Source Material", copy enclosed. Also enclosed is a copy of Title 10, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation." Compliance with the provisions of 10 CFR 20 is made a condition of all specific source material licenses issued by the Commission.

In connection with our review of this application, please provide the following information:

1. A flow diagram of the process operation, including the maximum quantity of material involved in each step of the process and identification of those areas or processes where airborne radioactivity might be produced.
2. A description of the dust collection and ventilation equipment provided for those processes producing dusts or fumes, etc., including type and capacity of such equipment and the minimum air velocities maintained at work stations.
3. A description of your radiation protection program including:

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- c. A description of your method for contamination control, including provisions for control of personnel entering or leaving process areas (e.g., protective clothing, showering, decontamination, unauthorized access, monitoring of personnel).
- b. A description of your employee training program as related to radiation health and safety.
4. A description of your radiation survey program including:
  - a. The types of radiation detection instrumentation and air sampling equipment, including manufacturer, model number and instrument range.
  - b. A description of your surveys for evaluating personnel exposure to concentrations of airborne radioactivity and external radiation, including the minimum frequency and location of such surveys. This should include sample analysis as well as collection of the sample.
  - c. A description of your surveys for determining the concentration of radioactive materials in effluents (both airborne stack effluents and liquid waste effluents), including type equipment, minimum frequency and location of such surveys. This should include sample analysis as well as sample collection.
  - d. A description of your contamination surveys including location and frequency of such surveys. This should include sample analysis as well as sample collection.

Very truly yours,

Don F. Harmon  
 Source & Special Nuclear Materials  
 Branch  
 Division of Materials Licensing

Enclosures:  
 As stated

OFFICE ▶	DML	DML			
SURNAME ▶	CEMacDonald/jf	DFHarmon			
DATE ▶	7/9/66	7/12/66			