

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555



JUL 2 1980

MEMORANDUM FOR: W. T. Crow, Section Leader  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch

FROM: A. L. Soong  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch

SUBJECT: TRIP REPORT

Purpose

To visit the Nuclear Science and Technology Facility (NSTF) of the State University of New York at Buffalo (SUNY/B), New York, to discuss its application for renewal of Special Nuclear Material Licenses No. SNM-273 and SNM-732 dated July 14, 1976, with NSTF representatives.

Place and Date

Nuclear Science and Technology Facility of SUNY at Buffalo on Rotary Road, Buffalo, New York 14214, June 19, 1980.

Discussion

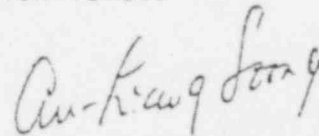
During the morning of June 19, 1980, I toured the facility with NSTF staff. They are Dr. Alan Brace, Radiation Safety Officer; Mr. Louis Henry, Assistant Director of the NSTF; and Mr. Mark Pierro, Radiation Protection Manager. They showed me through the areas where the licensed materials are being used and they explained in detail the Radiation Safety Controls procedure for the use of the licensed material in each area. The areas I visited are: fuel storage room, hot cell, chemistry laboratories and counting equipment room. The equipment seen and description provided are in accord with the information provided in the application. That afternoon, I met with NSTF staff again to discuss the content of the renewal application. Mr. Henry told me that since their last submission of the renewal application dated July 14, 1976, two major events have occurred in the NSTF: (1) NSTF has a new director, Dr. W. Chon, who replaced Dr. C. Thomas in 1979; and (2) NSTF has been reorganized. Mr. Henry also told me that NSTF does not need authorization under SNM-723 to possess 3.8 kgms of uranium in five

8011180192

fuel elements, nor permission to conduct destructive testing of fuel pins which were removed from the fuel elements in the hot cell. Based on this fact, Mr. Henry has agreed that NSTF will resubmit a revised renewal application incorporating both SNM No. 273 and SNM No. 723 into one license, SNM No. 273, Docket No. 70-267. It was agreed that the following additional information will be incorporated in the new renewal application and that it will be submitted within four weeks.

1. NSTF agrees that an approved procedure shall be provided for the students' laboratory experiments in which special nuclear material will be used.
2. If the hot cell is used to handle or store the SNM, means shall be provided to indicate that the air inside the hot cell is negative with respect to the outside air, and the criteria for replacing the exhaust filter for the hot cell shall also be stated.
3. NSTF shall modify its request for the maximum quantities of SNM to be used in the license.
4. NSTF shall clarify the criteria for issuing the neutron personnel dosimeter to the Pu-Be source user.
5. Licensee shall describe a minimum surface contamination survey program for the area in which the SNM is handled, used or stored. The program shall include the following elements:
  - a. Survey frequencies for all areas.
  - b. Action level (dpm/100 cm<sup>2</sup>) above which the corrective action shall be taken.
  - c. When the decontamination action will be started once the contamination level was found exceeding the above action level.
6. Licensee shall describe a radiation monitoring program to ensure that the stored dry waste is not leaking to the outside of the package. The program should consist of the method of monitoring and frequency of checking.
7. Licensee shall describe the following items in the SNM renewal application:
  - a. Audit program.
  - b. Training program for the workers.
  - c. Emergency procedure for the facility when an accident occurs.

8. Licensee shall describe the functions of the Nuclear Safety Committee and the Operating Committee.
9. NSTF shall submit radiation procedures (manual) of the NSTF along with the revised renewal application.
10. NSTF agrees to accept as a license condition that release of contaminated equipment from the facility for unrestricted use shall be in accordance with "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use of Termination of Licenses for Byproduct, Source or Special Nuclear Material," published by USNRC Division of Fuel Cycle and Material Safety, dated November 1976 (attached).
11. NSTF shall describe the monitoring control program for gaseous effluents from the facility. The program should consist of the following:
  - a. Method for collecting air samples at each release point.
  - b. Method of analyzing the samples.
  - c. Sample frequency and action level.



A. L. Soong  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch

Enclosure: As stated