

04 JAN 1985

License No. 06-07522-01  
Docket No. 030-03795  
Control No. 02841

United Technologies Corporation  
ATTN: I. Charles Mathews  
Assistant Counsel  
United Technologies Research  
Center  
Silver Lane  
East Hartford, Connecticut 06108

Gentlemen:

This is in reference to your request in a letter dated August 30, 1984 to renew License Number 06-07522-01. In order to continue our review, we need the following additional information:

1. In Item 10, Radiation Safety Procedures, of your application you have not provided a description of the radiation safety procedures which will be used at all sites of radioactive material usage including the Silver Lane facilities. In describing your procedures, pay particular attention to the guidance provided in subitem C on pages 6 and 7 of Regulatory Guide 10.5, Applications for Type A Licenses of Broad Scope (enclosed).
2. 10 CFR 33.13 specifies the requirements for the issuance of a Type A specific license of broad scope. As a part of those requirements, the applicant must establish a radiation safety committee (RSC) composed of a radiation safety officer, a representative of management and persons trained in and experienced in the safe use of radioactive materials. Please submit the names of the members of the RSC, and indicate the chairman of the committee.
3. 10 CFR 33.13 also requires that the applicant establish appropriate administrative procedures to assure:
  - a. Control of procurement and use of byproduct material;
  - b. Safety evaluations of proposed uses of byproduct material taking into consideration adequacy of facilities, training and experience of user and operating and handling procedures necessary. These evaluations should be reviewed, approved and recorded by the radiation safety committee.

Please submit a description of your control and administrative procedures which will satisfy the above requirements. Include the following:

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- (1) The responsibilities, duties and authority of the committee;
- (2) The number of members constituting a quorum;
- (3) Procedures and criteria for safety evaluations of proposed uses of materials;
- (4) Procedures for determining individual user possession limits;
- (5) Methods for maintaining the records of the RSC's proceedings and safety evaluations of proposed uses of radioactive materials;
- (6) Provisions for periodic review of your radiation safety program.

Also confirm that the RSC will meet at least quarterly.

4. Regarding Item 8 of your application, Training; 10 CFR 19.12 (enclosed) requires instruction to all individuals who work in or frequent any portion of a restricted area. Please confirm that ancillary personnel (clerical, housekeeping, security, etc.) as well as users of radioactive material will receive instruction as specified in 10 CFR 19.12. Outline your program for insuring that all individuals will receive the necessary instruction initially and annually thereafter on a refresher basis.
5. Regarding Item 11, Waste Management; please describe your procedures for controlling radioactive waste materials. Include the location where waste materials will be stored and the method of securing these materials. Also describe how bulk radioactive material will be disposed.
6. Please describe the methods you will use to monitor or estimate radioactive effluents to the environment. Include releases to the sanitary sewage system and releases to the atmosphere (e.g. krypton-85, iodine-125, etc. up the hood vent).
7. Regarding your bioassay program; please describe your action limits and the action which will be taken when those limits are exceeded. You may refer to the enclosed bioassay guides for tritium and iodine for guidance in determining these action limits.
8. Regarding the calibration procedures to be used for your quantitative dose rate survey meters; please confirm that the instruments will be calibrated to within  $\pm 10\%$  of the true value at two separate points on each range or that a calibration chart will be prepared for each instrument to allow an accurate determination of the dose rate.
9. Please describe the type of activities which will be done at temporary job sites. Include the quantity and types of materials which will be used at these sites.

10. In Item 10, page 23, of your application, you refer to Part 30.71 Schedule B in determining the frequency of surface contamination surveys. Schedule B does not contain any alpha particle emitting radionuclides. Please submit the frequency of surveys for these materials.
11. In items 5 and 6 you have asked for authorization of any byproduct material with atomic numbers 83 to 96. Please list the individual radionuclide for which you wish to be authorized, specifying the chemical and physical form, quantity and the purpose for which the radionuclide will be used.

We will continue our review upon receipt of this information. Please reply in duplicate to my attention at the Region I office and refer to Mail Control No. 02841.

Sincerely,

Original Signed By:

John E. Glenn

John E. Glenn, Ph.D., Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

Enclosures:

1. 10 CFR Parts 19, 20, 30, and 33
2. Regulatory Guides 10.5, 8.20, and  
Draft Regulatory Guide. Applications  
of Bioassay for Tritium

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## CONVERSATION RECORD

TIME

9:20 AM

DATE

12/17/84

TYPE

☐ VISIT☐ CONFERENCE☒ TELEPHONE

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

☒ INCOMING☐ OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

Charles Matthews, Asst Counsel

United

(203)

727-7566

SUBJECT

Submission of Amendment to  
LN 06-07522-01 to Increase Possession Limit of Fe-55

SUMMARY

- ① Mr. Matthews was informed that the initial license application review was finished and that as it was found deficient in a number of areas. A letter was being written which would itemize the areas requiring further information from the licensee.
- ② Due to the protracted nature of the licensing procedure it was recommended to Mr. Matthews that the licensee submit an amendment to their license which could be acted upon quickly to increase the possession limit of Fe-55.

ACTION REQUIRED

No action required.

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Edwin Wurtz

E Wurtz

12/17/84

ACTION TAKEN

SIGNATURE

TITLE

DATE