



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 27, 2002

Docket Nos. 04000791  
03003796  
Control Nos. 131104  
131105

License Nos. SMB-151  
06-07522-02

Judy Harvey, C.I.H.  
Radiation Safety Officer  
United Technologies Corporation  
Pratt & Whitney  
400 Main Street, M/S 162-31  
East Hartford, CT 06108

SUBJECT: UNITED TECHNOLOGIES CORPORATION, ISSUANCE OF LICENSE  
AMENDMENT, CONTROL NOS. 131104 AND 131105

Dear Ms. Harvey:

This refers to your license amendment request. Enclosed with this letter is the amended license. The facilities at 415 Washington Avenue, North Haven, Connecticut and Divided Road, Rocky Hill, Connecticut may be released for unrestricted use.

We concluded that it is appropriate to release your North Haven and Rocky Hill, Connecticut facilities for unrestricted release for the following reasons: 1) your statement that licensed radioactive material had never been used or possessed at these two facilities (we reviewed all of our files on these licenses and also found no indications that licensed materials were actually used at these facilities); and, 2) the fact that your surveys did not detect the presence of licensed material. While the information presented in your survey results was helpful in reaching our decision, you should note, however, that the data, as presented, would not be adequate to demonstrate compliance with Subpart E of 10 CFR Part 20 (25 millirem). In order to demonstrate such compliance you must either use the screening criteria specified in the Notice at 65 FR 37186 (NUREG/CR-5512, Volume 3, Table 5.19) or show with appropriate models that the contamination levels you accept lead to a dose of less than 25 millirem (see also 63 FR 64132 and 64 FR 68395). The values cited for thorium in your request exceed the values in Table 5.19 and you did not provide additional justification for your limits. Since no licensed material was used or possessed at these facilities it is not necessary to demonstrate compliance with Subpart E. In your request you mention using MARSSIM and NUREG-5849 to prepare the survey plan. MARSSIM is now the accepted approach and should be used for future surveys.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

J. Harvey  
United Technologies Corporation

2

In accordance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at <http://www.nrc.gov/reading-rm.html>.

Thank you for your cooperation.

Sincerely,

***Original signed by John D. Kinneman***

John D. Kinneman, Chief  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety

Enclosures:

1. Amendment No. 15 (SMB-151)
2. Amendment No. 43 (06-07522-02)

J. Harvey  
United Technologies Corporation

3

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NAME	JJoustra/JAJ		JKinneman/JDK					
DATE	3/27/2002		3/27/2002					

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**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. United Technologies Corporation Pratt and Whitney</p> <p>2. 400 Main Street, M/S 162-31 East Hartford, Connecticut 06108</p>	<p>In accordance with the letter dated February 19, 2002,</p> <p>3. License number SMB-151 is amended in its entirety to read as follows:</p> <p>4. Expiration date June 30, 2005</p> <p>5. Docket No. 040-00791 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Natural Thorium</p>	<p>7. Chemical and/or physical form</p> <p>A. Solid Thorium Oxide not exceeding 4% dispersed in Nickel</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 910 kilograms</p>
<p>9. Authorized use:</p> <p>A. Research and development and fabrication of aircraft engine components.</p>		

**CONDITIONS**

10. Licensed material shall be used only at the licensee's facilities located at 400 Main Street, East Hartford, Connecticut; and Aircraft Road, Middletown, Connecticut.
11. A. Licensed material shall be used by, or under the supervision of, Carlos Rivera, or United Technologies' Safety Engineers who have successfully completed the training requirements in letter dated April 25, 1995, and are approved by the Radiation Safety Officer.
- B. The Radiation Safety Officer for this license is Carlos Rivera.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

SMB-151

Docket or Reference Number

040-00791

Amendment No. 15

12. The licensee is not required to file the reports described in 10 CFR 40.64(a), (b) or (c) for thorium contained in nickel-thorium alloys if the thorium content of the alloys does not exceed 4 percent by weight.
13. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated December 22, 1993
  - B. Letter dated April 25, 1995
  - C. Letter dated November 11, 1997
  - D. Letter dated September 30, 1997



For the U.S. Nuclear Regulatory Commission

***Original signed by Judith A. Joustra***Date March 27, 2002

By

Judith A. Joustra  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406