

JAN 30 1974

L:F&M:REB  
(0514)

Division  
Department of the Air Force  
ATTN: Vincent T. Penikas, Lt. Colonel  
USAF, BSC  
Secretary, USAF Radioisotope Committee  
Headquarters, Air Force Logistics Command  
Wright-Patterson Air Force Base, Ohio 45433

Gentlemen: known as a "Selectable Strike Beacon," is a hand held target designator (reference attached photograph).  
This refers to your letter of January 7, 1974, regarding the possession of Waltham Compass Corporation Model No. WCC-TTO compasses containing 2 millicuries each of promethium-147. Based upon your description of the situation, it appears that the U. S. Air Force must obtain specific AEC byproduct material licenses to possess and use the described device.

Sincerely,

Robert E. Brinkman  
Fuels and Materials Branch  
Directorate of Licensing

Office	L:F&M				
mc#218209	Brinkman:zoe				
1/24/74	1/25/74				

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DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS AIR FORCE LOGISTICS COMMAND  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433



REPLY TO  
ATTN OF SGPR

7 Jan 1974

SUBJECT Radioluminous Wrist Compass

0154

TO Director  
Division of Materials Licensing  
U. S. Atomic Energy Commission  
Washington, D. C. 20545

1. It has come to the attention of the USAF Radioisotope Committee that the U. S. Air Force has a device that incorporates a small compass containing up to two (2) millicuries of Promethium-147. The device, known as a "Selectable Strike Beacon," is a hand held and operated target designator (reference attached photograph). Approximately 400 of these devices were built for the Air Force by the Naval Avionics Facility, Indianapolis, Indiana. They obtained the compass from the Waltham Compass Corp., Waltham, Mass.
2. The compass is Waltham Compass Corporation's Model WCC-200. An engineering drawing is attached. The company claims the compass is the same as 3M's license exempt Model 1D2D (USAEC Byproduct Material License No. 22-00057-37E). The strap and strap housing components have been omitted, but this has no effect on the integrity and radiation safety of the case.
3. The Waltham Compass Corp. claims they made and have distributed the 3M Model 1D2D for the 3M company. This was verified by 3M. The Committee notes that Waltham's present USAEC byproduct material license (copy attached) does not authorize exempt or generally licensed distribution. The compasses were delivered to the Naval Avionics Facility prior to the renewal of Waltham's present license.
4. The compasses presently in possession of U. S. Air Force appear to be similar to 3M's license exempt Model 1D2D. However, the Committee cannot determine whether transfer of the compasses as an

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exempt item from Waltham Compass Corp. to the Naval Avionics Facility and, subsequently, to the U. S. Air Force was entirely proper. The Committee requests guidance as to whether or not the Air Force must obtain an AEC byproduct material license to possess the compass used in the Selectable Strike Beacon.

*Vincent T. Penikas*

VINCENT T. PENIKAS, Lt Col, USAF, BSC  
Secretary, USAF Radioisotope Committee

3 Atch  
1. Photo  
2. Eng. Dwg. 29959  
3. Lic. No. 20-12943-01

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSE

Amendment No. 00154

This Copy Is For Your Files

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. 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 Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with application dated August 31, 1973, 3. License number 20-12943-01 is amended in its entirety to read as follows:
1. Waltham Compass Corporation	609 Main Street Waltham, Massachusetts 02154	
		4. Expiration date <u>September 30, 1978</u>
		5. Reference No.
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
A. Promethium 147	A. Pre-painted self-luminous compass parts (3M 1A2A)	A. Not to exceed 2 millicuries per component nor 7500 components
9. Authorized use		
A. Commercial assembly and testing of compasses.		

CONDITIONS

- 10. Byproduct material shall be used only at the licensee's address stated in Item 2 above, except that a maximum of 10 assembled compasses may be possessed for demonstration purposes anywhere in non-Agreement States.
- 11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
- 12. Byproduct material shall be used by, or under the supervision of, Fred Marcell or Benjamin D. Pollack.
- 13. This license does not authorize exempt or generally licensed distribution.
- 14. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated August 31, 1973.

For the U. S. Atomic Energy Commission

*Robert E. Borkman*  
Materials Branch

Division of Materials Licensing  
Washington, D. C. 20545

Date SEP 28 1973

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