



DEPARTMENT OF THE NAVY

DAVID W. TAYLOR NAVAL SHIP RESEARCH
AND DEVELOPMENT CENTER

HEADQUARTERS
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ANNAPOLIS, MD 21402

CARDEROCK LABORATORY
BETHESDA, MD 20084

IN REPLY REFER TO:

5100

Code 2801

31 JUL 1985

From: Commander, David Taylor Naval Ship R&D Center
To: U.S. Nuclear Regulatory Commission, Region 1, Nuclear Materials Section B
Via: Commander, Naval Sea Systems Command Detachment,
Radiological Affairs Support Office (Attn: Mr. William Morris)

Subj: APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Ref: (a) U.S. Nuclear Regulatory Commission Materials License No. 29-20512-01
of 10 Nov 81 to Sentex Sensing Technology, Inc.
(b) NRC guide for the Preparation of Applications for the Use of Sealed
Sources in Gas Chromatograph Devices and X-Ray Florescence Analyzers,
6 May 81
(c) DTNSRDC INSTRUCTION 8070.1A

Encl: (1) DTNSRDC Purchase Order (DD Form 1155) of 2 Apr 85
(2) DTNSRDC Application for Byproduct Material License, NRC Form 313I
(3) Sentex Sensing Technology, Inc. ltr of 1 Jul 85

1. The David Taylor Naval Ship R&D Center (DTNSRDC) is in the process of procuring a gas chromatograph, Model SCENTOR, supplied by Sentex Sensing Technology Inc., with a detector cell containing a radioactive source, Hydrogen 3, in the form of Titanium Trifluoride Foil. The chromatograph is an automated portable unit capable of detecting and analyzing toxic or hazardous vapors at very low concentrations, as specified in enclosure (1).

2. Sentex presently operates under a Specific NRC License (No. 29-20512-01), reference (a). Therefore, in accordance with the Code of Federal Regulations 10 CFR Part 170, the DTNSRDC Application for Byproduct Material License is submitted as enclosure (2) for the purchase and use of the SCENTOR Gas Chromatograph. Enclosure (3) provides pertinent information, provided by Sentex, regarding the gas chromatograph and the radiation source.

3. The SCENTOR unit is needed by DTNSRDC to support a high priority research and development program on Shipboard Collective Protection Systems, sponsored by the Naval Sea Systems Command. Any assistance in processing this license application expeditiously would be greatly appreciated. If additional information is needed, please contact the Center's Radiation Safety Officer, Dr. Danute E. Ventriglio, Code 2801, telephone autovon 281-2357 or commercially at (201) 267-2357, or Mr. Melvin Greenberg, Head, Chemical Applications Branch, Code 2833, telephone autovon 281-2461 or commercially at (301) 267-2461.

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NMSS LIC30
19-23556-01 PDR

C. N. Calvano
C. N. CALVANO
By direction

Copy to:
NAVSEA/RASO Detachment,
Sentex Sensing Technology, Inc.

ENCL (1)