030-03770

GENERAL DYNAMICS

Electric Boat Division

75 Eastern Point Road, Groton, Connecticut 06340-4909 203-446-5950

> 438-29681 July 21, 1988

> > RECEIVED

*88 AUG -8 ATT :24

To:

U.S. Nuclear Pegulatory Commission Region I, Nuclear Material Section B

631 Park Avenue

King of Prussia, Pennsylvania 19406

Subject:

Renewal of Byproduct Material License Number

06-01781-03

Enclosure:

(1) Changes and Updates to the Conditions of the

License (submitted in duplicate)

(2) Renewal Fee Check

- 1. Electric Boat Division of General Dynamics Corporation submits herewith, in duplicate, its request for renewal of Byproduct Material License Number 06-01781-03, which expires on August 31, 1988 (Program Code: 03222). In accordance with discussions with NRC personnel, only the changes and updates to the conditions of the license as reflected in Amendment 41 are provided herein, in enclosure (1), Supplements I-VI, rather than a complete renewal application. A check is enclosed in the amount of \$700.00 to cover renewal fee processing costs as specified in the Code of Federal Regulations, Title 10, Part 170.31, Section 3.L.
- 2. By the submission of this application at least thirty days prior to the expiration date of the license, the existing license is understood to remain in effect until action is taken by the Commission on the renewal application.
- 3. If any further information is required, please contact Mr. Eugene T. Reimer, Jr., Division Health Physicist, at Telephone Number (203) 446-5170.

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Check No. 252831 W. C. Everett	
Amount \$700 (Refunded \$240) Associate Division	Counsel
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OFFICIAL RECORD COPY"

U. S. Nuclear Regulatory Commission

438-29681 July 21, 1988

bxc: W. E. Graber (438)

R. R. Lavimoniere (438)

W. H. Lord (601)

E. T. Reimer, Jr. (438) S. M. Hirschberg (602)

R. D. Renza (438)

438 NRC File

438 Document Control File (Letters)

Enclosure (1) to 438-29681 July 21, 1988 Supplement I Condition 6 to License 06-01781-03 Changes and Updates to the Conditions of the License I. The following condition is accurately stated by the wording of the current license and supporting documents with the following exceptions: Radioactive Material - Element and mass number, chemical and physical form, maximum amount which will be possessed at any one time, and purpose of use. 1. The E.B.Division letter No. 438-27885, dated September 19, 1986 shall henceforth be cancelled along with all references to sources used with the Shimadzu ECD BAIE Bas Chromatograph. The unit and sources were never used or possessed by the licensee, and it is not anticipated that this unit will be acquired in the future.

Enclosure (1) to 438-29681 July 21, 1908 SUPPLEMENT II Condition 10 to License 06-01781-03 Changes and Updates to the Conditions of the License II. The following condition is an update of similar wording in the application dated July 22, 1983 and henceforth supersedes the wording of Supplement I, Item 5, of that document. Addresses where Licensed Material will be Used or Possessed: A. All licensed material may be used or possessed at Electric Boat Division, Eastern Point Road, Groton, Connecticut, 06340. B. In addition to (A.) above, the following check sources may be used or possessed aboard submarines constructed, refueled, repaired, overhauled, etc. for the U.S. Navy during sea trials and other similar activities: VENDOR IGOTOPE ACTIVITY SOURCE IDENTIFICATION AND DESCRIPTION Monsanto Am-241 165 mCi MRC-N-SS-W-AmBe-B99 An Am/Be neutron Research source, double encapsulated in a Corporation locked steel container, paraffin filled, US DOT 7A, Type A. Monsanto Am-241 125 mCi MRC-N-SS-W-AmBe-764 An Am/Be neutron Research source, double encapsulated in a Corporation locked steel container, paraffin filled, US DOT 7A, Type A. New England Cs-137 194 uCi Cs-842 (Model NER 570) A Cesium-137 Nuclear gamma source, double encapsulated. Corporation permanently installed in a solid high density polyethylene container New England Cs-137 198 uCi Cs-841 (Model NER 570) A Cesium-137 Nuclear gamma source, double encapsulated, Corporation permanently installed in a solid high density polyethylene container The check sources listed above are required for use during sea trials and other similar evolutions to standardize radiation detection instruments. The sources will be placed on board the submarine when necessary in locked source containers. These containers will be stored within a shielded security repository or in a shielded locker secured to a structural foundation in the submarine. Keys to the locked containers will remain in the custody of qualified radiological control personnel as defined by the licensee's -4-

GENERAL DYNAMICS

Electric Boat Division

Enclosure (1) to 438-29681 July 21, 1988

Condition 10 to License 06-01781-03 (Continued)

"Byproduct and Special Nuclear Material Qualification Program". Opening the Am/Be steel containers is not normally required for use in instrument standardization; therefore, authorization from the Radiation Protection Officer is required before Am/Be source security keys may be brought on board a submarine.

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 Changes and Updates to the Conditions of the License III. The following condition is accurately stated by the wording of the current license and supporting documents with the following exceptions listed below. These changes shall henceforth supersede references made on this subject in the license and supporting documentation. 1. The name of Victor E. Sosin and all supporting documentation shall henceforth be deleted as a qualified user of radioactive material as specified in the license. 2. The name of Joseph P. Ross and all supporting documentation shall henceforth be deleted as a qualified user of radioactive material as specified in the license. 3. The name of Eugene N. Frank and all supporting documentation shall henceforth be deleted as a qualified user of radioactive material as specified in the license. 4. The training program outlined in the letter dated June 16. 1986 is henceforth superseded by the training program described below entitled, "Byproduct and Special Nuclear Material Qualification Program". Changes to the earlier program involve updating the material to remove ambiguities in training requirements and responsibilities. -6-

Enclosure (1) to 438-29681 July 21, 1988

Condition 11 to License 06-01781-03 (Continued)

Byproduct and Special Nuclear Material Gualification Program

Purpose:

To provide training and qualification as required by Condition 12 of U.S. Nuclear Regulatory Commission Byproduct Materials License 06-01781-03 and Condition 11 of Special Nuclear Materials License SNM-205.

Applicability:

All individuals not specifically listed on Materials Licenses 06-01781-03 or SNM-205 must successfully complete the Qualification Program and receive approval from the Radiation Protection Officer prior to using licensed sources without the direct supervision of qualified personnel.

General:

1. The Byproduct and Special Nuclear Material Qualification Program is divided into a number of modules to facilitate the training of personnel in using specific radioactive sources. Individuals successfully completing the modules listed under each source class described below, and obtaining approval from the Radiation Protection Officer, are qualified as responsible individuals to use sources under that particular class. This restriction is maintained by a key authorization list which limits access of source security keys.

2. Class A

Personnel successfully completing training Modules I, II, III, and IV, or its equivalent, i.e., Calibration Facility Qualification Program, dated May 1983, shall have use of any licensed material listed on Materials Licenses 06-01781-03 and SNM-205, except the Kevex Model 9900 Energy Dispersive X-Ray Analyzer (Materials License 06-01781-03), which is a separate Class D authorization.

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) General: 3. Class B (Continued) Personnel successfully completing training Modules I, II, and III shall be limited in using solely the Eberline Instrument Corp. Model 1000 Multi-Source Gamma Calibrator (Materials License 06-01781-03). 4. Class C Personnel successfully completing training Modules I, II, and V Qualification, shall be limited in using solely the check sources listed in Subitems 6F and 6G of Materials License 06-01781-03. Current qualification as a Radiological Control Monitor as outlined in 389-0288, "Radiological Controls for Shipyards", Article 108, is recognized as equivalent to the successful completion of Modules I and II. 5. Class D Personnel successfully completing training Modules I, VI, and VII shall be limited in using solely the Kevex X-Site 9900 Energy Dispersive X-Ray Analyzer (Materials License 06-01781-03). Qualified personnel in each class shall have at least the knowledge, understanding, and practical abilities as listed in this modular program of instruction and demonstrate these abilities in situations they might encounter during normal work and in emergency and nonroutine situations. All qualification training shall be for an eighteen-month period. Requalification will consist of successfully completing the following practical factor modules for each class, have a current TLD Qualification (Module I), and obtain approval from the Radiation Protection Officer. All requalifications of responsible users are to be witnessed and certified by those personnel individually named in Materials Licenses SNM-205 and 06-01781-03 as authorized users. -8-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) General: (Continued) Class Requalification Module A III and IV III B C D VII 7. Individual who fail to successfully complete all requalifications for their user class before qualification expiration will lose authorization to handle NRC licensed material. Requalification after this time will require proof of current TLD Module I qualification, successful completion of Module II, and the performance of applicable practical factor modules for the appropriate user class, unless specifically exempted by the Radiation Protection Officer. Random retention tests and/or practical factor 8. modules may be given to any individual trained as a responsible user of NRC licensed material at any time during his/her current qualification. Failure to successfully complete a retention test or practical factor module will result in the immediate loss of qualification. Requalification after this time will be as that outlined in General, paragraph 7 above. -9-

Enclosure (1) to 438-29681 July 21, 1988

Condition 11 to License 06-01781-03 (Continued)

Module Descriptions

Module I: TLD Qualification

This module qualifies an individual to work in a radiation area. The basic program is 22 hours; requalification is for 16 hours every 18 months.

- 1. Basic Radioactivity Definitions
- 2. Occupational Exposure Control Levels and Limits
- 3. Exposure Control Devices: Dosimeters
- 4. Administrative Exposure Tracking
- 5. Time, Distance, and Shielding
- 6. Radiation Sources
- 7. Radioactive Contamination and Control
- B. Controlled Areas: Monitoring
- 9. Controlled Areas: Emergency Procedures
- 10. Radiological Posting

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module II: Radiation Safety Fundamentals This module provides 40 hours of course work as required for Class A, B, and C qualification. 1. Mathematics Review Algebra, logarithms, and exponential functions. 2. Physics Review Atomic structure; electrons, protons, and neutrons; chart of the nuclides; nuclear forces, models. 3. Radioactivity and Radioactive Decay Alpha, beta, gamma, and X-ray radiation; decay chains; ra : ation interaction with matter; range of radiation in matter; activity; specific activity; half-life; decay equations. Radiation Detection and Measurement Radiation quantities and units; correlation of units of activity and gamma exposure rate; radiation shielding and inverse square law; radiation detection instrument theory; circuits, ionization chamber detectors, scintillation detectors, neutron detectors, direct reading dosimeters. thermoluminescent dosimeters. 5. Biological Effects of Radiation Acute whole body exposure; nonstochastic effects; genetic effects; chronic effects, carcinogenesis, risk. Radiation Protection Principles Time, distance, and shielding; radiation limits and guides, ICRP, NCRP, and Code of Federal Regulations: in-house procedures; contamination and its control. ALARA; radiological posting, surveys and monitoring. -11-

Enclosure (1) to 438-29681 July 21, 1988

Condition 11 to License 06-01781-03 (Continued)

Module II: Radiation Safety Fundamentals (Continued)

7. Emergency Preparedness

Radiological emergency plan; evacuation routes and procedures; communications; the responsible individual's role in an emergency.

B. Byproduct and Special Nuclear Material

Review of Materials Licenses 06-01781-03 and SNM-205; radiation detection instrument operation; calibration facilities walk-through; use and identification of radioactive material.

9. Review

Successful completion of this course is achieved by passing a written examination reviewed by the Radiation Protection Officer or his designee.

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module III: South Yard Calibration Facility Practical Factors This module requires successful completion of demonstration of the ability to properly operate the Eberline Instrument Corporation Model 1000 Multi-Source Gamma Calibrator by observing all radiological safety practices (Materials License 06-01781-03). 1. Demonstrate knowledge of source accountability (log out and in). 2. Demonstrate the proper use of dosimetry. 3. Demonstrate proper security of area and sources. 4. Demonstrate proper posting procedures while using the sources. 5. Demonstrate proper response to unusual situations. -13-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module IV: North Yard Calibration Facility Practical Factors This module requires successful completion of demonstration of the ability to properly use sources stored at the North Yard Calibration Facility by observing all radiological safety practices (Materials Licenses SNM-205 and 06-01781-03). 1. Demonstrate safe handling of sources using remote handling tools. 2. Demonstrate knowledge of source accountability (log out and in). 3. Demonstrate the proper use of dosimetry. 4.

- Demonstrate proper security of area and sources.
- Demonstrate proper posting procedures while using the 5. sources.
- Demonstrate proper response to unusual situations.

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module V: Sea Trial Check Source Practical Factors This module requires successful completion of the demonstration of the ability to properly source check instruments with the sources listed on Byproduct Materials License 06-01781-03 subitems 6F and 6G and source security procedures while observing all radiological safety practices. Demonstrate geometrical configuration of source and instrument for source checks. Demonstrate knowledge of source security during sea trials and other uses. Demonstrate proper use of dosimetry. 3. Demonstrate knowledge of source accountability (log out and in). 5. Demonstrate proper response to unusual situations. -15-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module VI: Kevex X-Site 9900 Radiation Safety Course This module provides radiation safety instruction for operators of the Kevex X-Site 9900 Energy Dispersive X-Ray Analyzer and is 20 hours in duration (Materials License 06-01781-03). I. Radiation Radiation - Define: 1. Decay 2. Half-Life 3. Types of Radiation: a. Particulate: 1) Alpha 2) Beta 3) Neutron b. Electromagnetic (X and Gamma): 1) Origin 2) Characteristics 4. Units of Radiation Dose: a. Roentgen b. Rad C . Rem Dose vs. Dose Rate a. Subunits f. Quality Factors -16Enclosure (1) to
438-29681
July 21, 1988

SUPPLEMENT III
Condition 11 to License 06-01781-03
(Continued)

Module VI: Kevex X-Site 9900 Radiation Safety Course (Continued)

I. Radiation (Continued)

A. Radiation - Define (Continued)

- 5. Curie Define
 - a. As a unit of quantity
 - b. Intensity and distance relationship
- 6. Exposure Control:
 - a. Time
 - b. Distance
 - c. Shielding
- 7. Radiation Limits:
 - a. Natural Background and Medical Exposure
 - b. 10 CFR 20 Limits

B. Biological Effects:

- 1. Effects of ionization in tissue
- 2. Extremities and whole body exposure
- 3. Effects and levels of acute exposure
- 4. Radiation Sickness
- 5. Fetus and embryo suggested limits
- 6. Somatic versus genetic effects
- 7. Acute versus chronic dose

E38-29681 (1) to July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module VI: Kevex X-Site 9900 Radiation Safety Course (Continued) Radiation Detection Principles of Radiation Detection and Measurement 1. Personal Dosimetry a. Thermoluminescent Dosimeter (TLD) III. Radiation Mathematics - Using the Inverse Square Law IV. Pertinent Federal Regulations Code of Federal Regulations Rules and Regulations for the Control of Radiation 1. 10 CFR 19, 10 CFR 20, and other applicable parts Operating and Emergency Procedures Notification of Personnel 1. 2. Conditions and Limitations of License V. Final Written Examination Successful completion of this course is achieved by passing a written examination reviewed by the Radiation Protection Officer or his designee. -18-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT III Condition 11 to License 06-01781-03 (Continued) Module VII: Kevex X-Site 9900 Practical Factors This module requires successful completion of demonstration of the ability to properly operate the Kevex X-Site 9900 in accordance with the manufacturer's User's Manual and radiological safety practices (Materials License 06-01/81-03). Demonstrate procedures for the operation of the Kevex X-Site 9900. 2. Demonstrate the knowledge of source accountability (log out and in). Demonstrate the proper use of dosimetry. 4. Demonstrate proper security of area and Kevex X-Site. 5. Demonstrate proper response to unusual situations. -19-

Enclosure (1) to 438-29681 July 21, 1988

SUPPLEMENT IV Condition 14 to License 06-01781-03

1. The licensee accepts condition 14 of Amendment No. 41 to License 06-01781-03 as written by the Nuclear Regulatory Commission. This requirement for a semi-annual physical inventory of all sources and/or devices received and possessed under the license shall henceforth supersede any previous reference to the subject in supporting documentation letters dated July 22, 1983 and June 16, 1986.

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT V Condition 16 to License 06-01781-03 1. The E.B. Division letter No. 438-27885 dated September 19, 1986 shall henceforth be deleted from the license along with all references to the Shimadzu Model ECD-B Gas Chromatograph. The licensee does not anticipate acquiring this unit in the foreseeable future. 2. Supplement IIIA to the application dated July 22, 1983 shall henceforth be deemed superseded by the wording in Amendment 41 to License No. 06-01781-03 as written by the Nuclear Regulatory Commission to reflect current NRC materials licensing policy. 3. Supplements V and VI to the application dated July 22. 1983 is henceforth superseded by the following updated description of facilities. Description of Facilities and Instrument Calibration 1. North Yard Calibration Facility A. All byproduct materials under License No. 06-01781-03, other than the Model 1000 Multiple Source Cesium Calibrator, are normally stored at the North Yard Calibration Facility (see figure 1). The exterior of the Facility is shielded by twenty-four inches of concrete. The sources are stored when not in use in shielded containers located in an eight foot deep recessed source storage repository in the calibration area. calibration area is equipped with a gamma radiation detector/alarm/warning system which is activated automatically in a 5 mrem/hr gamma field and manually activated during use of neutron calibration sources. When the system is energized in one of these two ways, two blinking red lights are turned on in the passageway leading to the calibration area to warn personnel of exposure conditions. In addition, a radiologically posted entrance gate to the calibration area causes an audible alarm when opened. In accordance with local operating instructions, the detector/alarm system described above must be manually activated previous to the use of neutron sources. Heat detector units are also installed in the Facility in the unlikely event of the occurrence of a fire. The sources are handled using remote handling devices. The recessed source storage repository, or source pit, is secured with a lock, and only authorized personnel have access to a key. The Calibration Facility itself is also secured with two more locks, thereby limiting access to personnel. The ability to obtain keys to these locks are restricted by the Radiological Control Department's Key Authorization System. -21-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT V Condition 16 to License 06-01781-03 (Continued) B. A rack assembly is used for the placement of sources at various distances from instruments being calibrated to minimize radiation exposure to personnel. The rack is designed so that the operator remains outside the shield wall while maneuvering the sources to predetermined distances from the survey instrument being calibrated. Distance verses exposure rate data for each calibration source is contained in a Calibration Source Data book in the rack control area. C. All personnel using sources in the calibration rack shall wear Calcium Fluoride thermoluminescent dosimeters and pocket ion chamber dosimeters in accordance with local procedures. Neutron albedo lithium fluoride thermoluminescent dosimetry is worn when utilizing neutron sources for the purpose of calibrating neutron survey instruments. 2. South Yard Calibration Facility A. The Model 1000 Cesium Calibrator is located at ground level in the inner room of the two room facility shown in figure 2. The exterior of the facility is shielded by fourteen .nches of concrete. The doors to both rooms are locked, and ac ess to the keys are limited to authorized personnel. The cali: ator itself requires one key for normal usage in calibrating survey instruments. This key is available for use by authorized personnel. The Radiation Protection Officer has the remaining key to the calibrator, thus preventing unauthorized bypassing of fail safe mechanisms. 3. Instrument Calibration A. Gamma survey instruments are calibrated at either of two locations. NBS traceable sources such as Cobalt-60 and Cesium-137 are utilized at the North Yard Calibration Facility to provide verifiable radiation fields and dose rates for calibrating instruments in accordance with local procedures. An Eberline Instrument Corporation Model 1000 Multiple Source Gamma Calibrator containing eight Cesium-137 sources resides at the South Yard Calibration Facility where instruments are also calibrated. Dose rates for the Cesium calibrator have been determined by the use of NBS traceable sources and an NBS calibrated Victoreen Radocon II ion chamber transfer instrument. Radiation survey instrumentation is normally calibrated semi-annually in accordance with local procedures. -22-

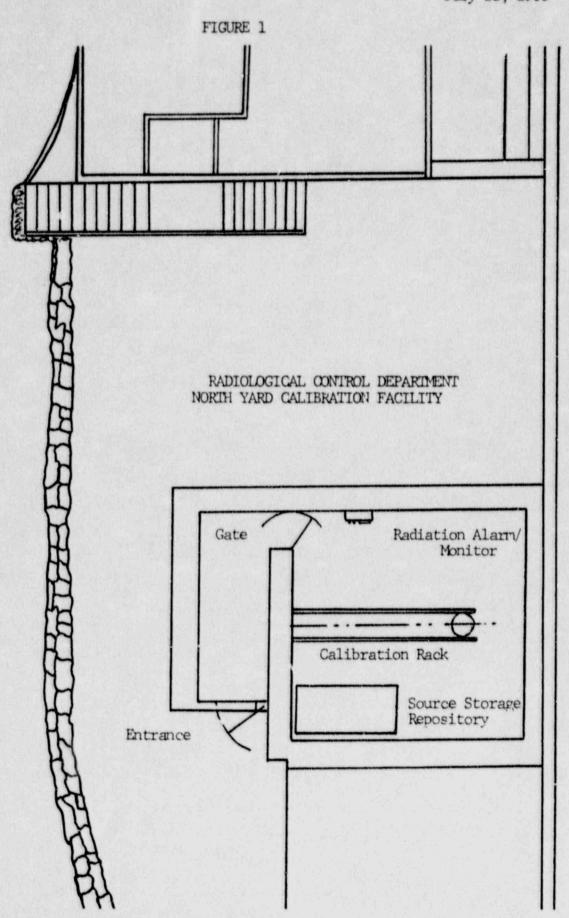
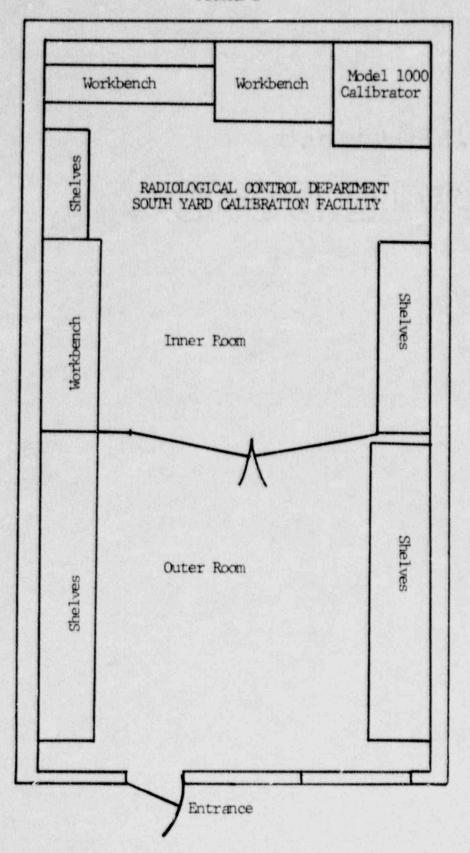


FIGURE 2



Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT V Condition 16 to License 06-01781-03 (Continued) B. Beta monitoring instruments are normally calibrated by using beta calibration sources (e.g. electroplated Technicium-99). The efficiency of each detector is determined for the source to detector geometry used for counting. Calibration is normally performed semi-annually in accordance with local procedures. C. Alpha probes are calibrated using sources such as siectroplated thorium calibration sources. The efficiency of each detector is determined for the source to detector geometry used for counting. Calibration is normally performed semi-annually in accordance with local procedures. D. Neutron survey meters are calibrated using NBS traceable Pu/Be or Am/Be neutron sources at distances giving the required dose equivalent rates. Calibration is normally performed semi-annually in accordance with local procedures. Contamination Control and Accountability Leak testing of sources is performed on a six month basis. Swipe samples assayed for alpha activity are performed using a zinc sulfide scintillation detector (e.g. Ludlum Model 43-2 alpha detector connected to a counter scaler) or a solid state diffuse junction d tector. Beta activity is measured by liquid scintillation analyzers such a a Beckman Model 100C or by thin window Geige -Muller detectors or proportional detectors. Swipes with potent al gamma emitter activity can be analyzed with a multi-channel analyzer like the Canberra Series 90/Spectran AT system. These detectors are calibrated before leak test analysis with NBS traceable sources in accordance with local operating instructions. An indication of activity exceeding 0.005 microcuries of contamination would result in an immediate withdrawal of the sealed source from use, performance of decontamination measures, an investigation as to the cause of the activity, the performance of appropriate corrective measures, and notifications to applicable personnel and organizations. A return to an authorized vendor for repair or reclamation would follow decontamination actions outlined in local operating instructions. Tests for leakage and/or contamination shall be performed by E. T. Reimer, Jr., D. R. Prentice, or by other persons specifically authorized by the NRC to perform such services. -23-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT VI Condition 16 to License 06-01781-03 (Continued) 4. Supplement VII to the application dated July 22, 1983 is henceforth superseded by the following updated description of the Radiation Protection Program responsibilities. Specification of Radiation Safety Responsibilities and Duties The responsibility for the safe performance of licensed activities and adherence to NRC requirements lies with the Licensee management, in agreement with the NRC's position as outlined in NRC Information Notice No. 88-10, dated March 28, 1988, entitled, "Materials Licensees: Lack of Management Controls over Licensed Programs." The Electric Boat Division program for radiation safety regarding NRC licensed materials is separated into the following categories: 1. Radiation Safety Officer (RSO): Has day to day radiation safety responsibilities which include the granting or removal of authorization of individuals to use licensed byproduct or special nuclear material, the institution of measures to correct deficiencies, to help ensure that NRC regulations are faithfully adhered to, and to help ensure the security of sources. The RSO is also responsible for overseeing the Byproduct and Special Nuclear Material Qualification Program. interfacing with the NRC on license amendments, renewals, or other subjects, and to render health physics support in the event of an accident. The results of quarterly inventories and semiannual leak tests are be approved by the RSO. 2. Radiological Control Department Manager (Dept. 438): Supports and monitors the RSO and the rest of the Radiological Control staff to ensure they have adequate resources to do their assigned jobs and implement all radiation safety requirements. Radiological Control Management has ultimate responsibility for all NRC activities allowed by the license. Authorized Users of NRC Licensed Material: Must be 3. knowledgeable of and adhere to all provisions of NRC licenses, applicable regulations as set forth in the Code of Federal Regulations, and local Operating Instructions. In addition, they have the responsibility for ensuring the safe use of licensed materials by directly supervising the actions of technicians trained in the utilization of such material in instrument calibration. -24-

Enclosure (1) to 438-29681 July 21, 1988 SUPPLEMENT VI Condition 16 to License 06-01781-03 (Continued) 4. Supervisor of the Central Issue Point: Responsible for the personnel dosimetry program, including the distribution and collection of thermoluminescent dosimeters, determination of whole body dose equivalent, and assignment of such doses to individual exposure records. Also has the responsibility for furnishing to the NRC, other institutions or companies, and individuals information on personnel exposure histories or statistical reports of those exposures as required by applicable regulation. Has the responsibility to administratively bar personnel from receiving exposures in excess of local control levels. Provides source access control keys to authorized individuals and assures that the key authorization list is current. 5. Superintendent of Radiological Control Operations: Responsible for ensuring that periodic area radiation surveys are conducted in those areas where NRC licensed sources are stored or used, that source security checks are performed, and that radiological control operations involving transport of licensed material within the shippard are performed in accordance with local Operating Instructions in a safe manner. Responsible for ensuring that swipe tests and surveys to measure radioactive leakage or contamination are performed upon receipt or shipout of licensed material. Responsible for radiological control operations support in the event of an incident. Radiological Control Administration Supervisor: Responsible for the collection and maintenance of official memoranda and records such as leak test results, periodic physical inventories, radiation survey results, NRC licenses, etc. 7. Radiological Stores Personnel: Responsible for preparing radioactive material for shipout and handling the receipt of such materials into Electric Boat Division in accordance with applicable regulations. -25-

Enclosure (1) to 438-29681 July 21, 1988

The applicant and undersigned official executing this certificate on behalf of the applicant certifies that this request for license renewal is prepared in conformity with the applicable Nuclear Regulatory Commission guidelines for renewal application preparation, and that all information contained herein, including any supplement attached hereto, is true and correct to the best of our knowledge and belief.

S. M. Hirschberg Division Counsel

GENERAL DYNAMICS CORPORATION Electric Boat Division



NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20556

AUG 2 3 1988

General Dynamics Electric Boat Division ATTN: Mr. W. C. Everett 75 Eastern Point Road Groton, CT 06340-4909

REFUND OF APPLICATION FEE

1. BACKGROUND:

	Check Received	August 8, 1988	
	Application Dated	July 21, 1988	
	Check Number	252831	
	Check Amount	\$700	
2. REFUND			
	Amount	\$240	

This refund is now being processed and will be sent as soon as possible.

3. REASON FOR REFUND:

Overpayment of renewal fee for letter dated July 21, 1988 for License 06-01781-03, as specified in fee Category 3M (\$460) of Section 170.31, 10 CFR 170.

Glenda Jackson

License Fee Management Branch

Division of Accounting and Finance

Office of Administration and

Resources Management

(FOR LFMS USE) INFORMATION FROM LTS BETWEEN: LICENSE REE MANAGEMENT BRANCH, ARM PROGRAM CODE: 03222 STATUS CODE: 2 AND REGIONAL LICENSING SECTIONS : FEE CATEGORY: 3M FEE COMMENTS: 3M VERTISE EXPERIMEN 11111111111111111111111111111111111111 LICENSE FEE TRANSMITTAL REGION APPLICATION ATTACHED APPLICANT/LICENSEE: GENERAL DYNAMICS CORP. RECEIVED DATE: 880727 DOCKET NO: 3003770 CONTROL NO.: 109317 LICENSE NO.: 06-0178: ACTION TYPE: RENEWAL 109317 06-01781-03 2. FEE ATTACHED CHECK NO .: 252831 3. COMMENTS SIGNED B. LICENSE FEE MANAGEMENT BRANCH CHECK WHEN MILESTONE 03 IS ENTERED /_ 7) FEE CATEGORY AND AMOUNT: 3M.... CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR: AMENDMENT RENEWAL LICENSE DTHER SIGNED DATE