3. Releases within the site boundary which cause dose rates in unrestricted areas to exceed 10 mr/hr but do not exceed EPA Protective Action Guideline exposure levels outside the site boundary.

B. A major fire in the radiopharmaceutical production building (#124.)

A general emergency exists when:

A. Any condition which threatens to cause the release of radioactive material beyond the site boundary in quantites expected to exceed EPA Protection Action Guideline exposure levels offsite.

1. Events are in process or have occurred which involve actual imminent loss of confinement integrity.

2. A radiation dose rate of 10 mr/hr at the site boundary or concentration of radioactive material greater than MPC beyond the site boundary.

B. A major fire involving the release of large amounts of radioactive material.

5.2 Assessment Actions

5.2.1 Notification of Unusual Event

A. When an unusual event occurs, the following procedures should be implemented to alert response personnel and to notify management of the incident.

The individual (s) suspecting that an unusual event has occurred shall notify Health Physics personnel immediately, by telephone, plant intercom system and/or in person.

Intercom: 63 or 60

Telephone: 2168

Health Physics personnel shall immediately notify the Health Physics Department Head or his designee by intercom, telephone and/or in person.

Intercom: 17 or 60

Telephone: 2451, 3158 or 3721

E/1

	Office	Home
Daniel K. Balkunow	2451	(b)(6)
Edward Truskowski	3158	(b)(6)
Larry Gaines	3721	(b)(6)

The Health Physics Department Head shall notify:

	Extension
1. Squibb Medical	3033
Squibb Fire	3011
Squibb Police	2111
Robert Wood Johnson Hospital	201-937-8000 ext. 2222 (if required)

2. Radiopharmaceutical Department Head

	Office	Home
G. Thompson or designee	3061	(b)(6)
C. Forberg	3063	(b)(6)

3. U.S. Nuclear Regulatory Commission — 301-951-0550
Head Quarters Operations Center — 301-427-4056
301-492-8893
301-427-4259

a. Identify: "E. R. Squibb & Sons, Inc."
b. Give Emergency Class (Alert, Unusual event, site or general).
c. You will be transferred to Region I Duty office.

4. NJ State Department of Environmental Protection — 609-292-7172
Radioactive Materials Section — 609-530-4023

5. N. J. State Police — 609-882-2000

B. The emergency assistance team or alternate shall proceed to the immediate area of emergency with special monitoring equipment and determine the extent of the emergency.

C. The affected area shall be isolated with a barricade and warning signs shall be placed on all entrances leading to the emergency area.

D. All personnel not immediately involved with the emergency shall report to an area designated by the emergency team or alternate.

5.2.2 Alert

A. Persons discovering the emergency condition shall notify the Health Physics office by the most expeditious means available (Telephone 2168; Intercom 60 or 63.)

B. Health Physics personnel or shift supervisors sounds the appropriate alarm within the plant and notify the Health Physics Department Head of his designee:

Health Physics Department Head:	Office	Home
D. K. Balkunow or designee	2451	(b)(6)
E. Truskowski	3158	(b)(6)
L. Gaines	3721	(b)(6)

C. The Health Physics Department Head shall notify:

1. Medical	3033	
2. Fire	3011	
3. Police	2111	
4. Robert Wood Johnson Hospital	201-937-8000, ext. 2222	
5. New Brunswick Police	201-745-5200	
6. North Brunswick Police	201-545-4300	

7. Radiopharmaceutical Department Head or designee:

	Office	Home
G. Thompson or designee,	3061	(b)(6)
C. Forberg	3068	(b)(6)

8. U.S. Nuclear Regulatory Commission — 301-951-0550
   Head Quarters Operations Center — 301-427-4056
   301-492-8893
   301-427-4259

   a. Identify: "E. R. Squibb & Sons, Inc."
   b. Give Emergency Class (Alert, Unusual event, site or general).
   c. You will be transferred to Region I Duty office.

9. NJ State Department of Environmental Protection, Radioactive Materials Section — 609-292-7172, 609-530-4023

10. N. J. State Police — 609-882-2000

D. The Radiopharmaceutical Department Head shall notify:

V. P. & General Mgr., Sq. Diagnostics

	Office	Home
Dr. M. Loberg	2203	(b)(6)

E. The Health Physics Department Head shall notify:

V. P. of World Wide Quality Control and Quality Assurance

Dr. E. A. Gusmano	3191	(b)(6)

F. Persons in the immediate area of the emergency condition shall take appropriate action to limit the extent of the incident with available means to the extent possible, then retreat to a safe location and await assistance.

G. All shift personnel, not immediately involved with the incident, shall report to the area designated by the Health Physics or shift supervisors.

5.2.3 Site Area Emergency

A. Persons discovering the emergency condition shall immediately notify the Health Physics Office by the most expeditious means available.

B. Telephone ext. 2168
   or
   Intercom 60 or 63

C. Health Physics personnel or shift supervisors sound the appropriate alarm (horn) within the radiopharmaceutical production building and notify the Health Physics Department Head or his designee:

Health Physics Department Head:	Office	Home
D. K. Balkunow or designee,	2451	(b)(6)
E. Truskowski	3158	(b)(6)
L. Gaines	3721	(b)(6)

D. The Health Physics Department Head shall notify:

1. Medical 3033
2. Fire 3011
3. Police 2111
4. Robert Wood Johnson Hospital 201-937-8000, ext. 2222
5. New Brunswick Police 201-745-5200
6. North Brunswick Police 201-545-4300
7. Radiopharmaceutical Department Head or designee:

	Office	Home
G. Thompson or designee,	3061	(b)(6)
C. Forberg	3068	(b)(6)

8. U.S. Nuclear Regulatory Commission Head Quarters Operations Center
   301-951-0550
   301-427-4056
   301-492-8893
   301-427-4259
   a. Identify: "E. R. Squibb & Sons, Inc."
   b. Give Emergency Class (Alert, Unusual event, site or general).
   c. You will be transferred to Region I Duty office.

9. NJ State Department of Environmental Protection Radioactive Materials Section — 609-292-7172 / 609-530-4023

10. N. J. State Police — 609-882-2000

E. The Health Physics Department head shall notify:

" D. & General Mgr., Sq. Diagnostics

	Office	Home
Dr. M. Loberg	2203	(b)(6)

Ex 6

F. The Health Physics Department Head shall notify:

	Office	Home
V. P. of World Wide Quality Control and Quality Assurance		
Dr. E. A. Gusmano	3191	(b)(6) Ex 6

G. Persons in the immediate area of the emergency condition shall take appropriate action to limit the extent of the incident with available means to the extent possible, then retreat to a safe location and await assistance.

H. Shift operating personnel, not immediately involved with the incident, report to the Health Physics Office.

5.2.4 General Emergency

A. Person(s) discovering the emergency condition shall immediately notify the Health Physics Office by the most expeditious means available (Tel. 2168; Intercom 63 or 60.)

B. Health Physics personnel or shift supervisors sound the appropriate alarm within the radiopharmaceutical production building and notify the Health Physics Department Head or his designee:

Health Physics Department Head:	Office	Home
D. K. Balkunow or designee,	2451	(b)(6) Ex 6
E. Truskowski	3158	(b)(6) Ex 6
L. Gaines	3721	(b)(6) Ex 6

C. The Health Physics Department Head will notify:

1.	Medical	3033
2.	Fire	3011
3.	Police	2111
4.	Robert Wood Johnson Hospital	201-937-8000, ext. 2222
5.	New Brunswick Police	201-745-5200
6.	North Brunswick Police	201-545-4300

7. Radiopharmaceutical Department Head or designee:

	Office	Home
G. Thompson or designee,	3061	(b)(6) Ex 6
C. Forberg	3068	(b)(6) Ex 6

8. U.S. Nuclear Regulatory Commission — 301-951-0550
   Head Quarters Operations Center — 301-427-4056, 301-492-8893, 301-427-4259

   a. Identify: "E. R. Squibb & Sons, Inc."
   b. Give Emergency Class (Alert, Unusual event, site or general).
   c. You will be transferred to Region I Duty office.

9. NJ State Department of Environmental Protection, Radioactive Materials Section — 609-292-7172, 609-530-4023

10. N. J. State Police — 609-882-2000

D. The Radiopharmaceutical Department Head shall notify:

V. P. & General Mgr., Sq. Diagnostics

	Office	Home
Dr. M. Loberg	2203	(b)(6) Ex 6

E. The Health Physics Department Head shall notify:

V. P. of World Wide Quality Control and Quality Assurance

	Office	Home
Dr. E. A. Gusmano	3191	(b)(6) Ex 6

F. Persons in the immediate area of the emergency condition shall take appropriate action to limit the extent of the incident with available means, to the extent possible, then retreat to a safe location and await assistance.

F. Notify the following members of management:

- Radiopharmaceutical Manufacturing Department Head
- Squibb Plant Manager
- Diagnostics Quality Control Department Head
- Plant Security Head
- Plant Medical Department Head
- Other personnel as required

G. Set up necessary auxiliary communications (walkie-talkie), if necessary.

H. Establish barricades with Plant Security force at the site boundary gate houses to restrict access to the site.

I. Evaluate the emergency and, as quickly as possible, determine the release of radioactivity. Refer to Addendum V for methodology and parameters used in calculating atmospheric dispersion and dose rates to individuals.

J. If there are injured personnel, notify the senior Medical Representative.

K. Provide a Health Physics representative to accompany the patient(s) to the hospital with the ambulance emergency kit, to maintain radiological controls in the hospital.

L. Supervise collection of emergency data in the Contingency Monitoring Log.

M. Notify Plant Security to institute site industrial emergency and disaster control plan, if necessary.

5.3.4 General Emergency

A. Note the wind direction, instruct security to evacuate onsite personnel, if necessary, through the upwind exits of the site and sound the evacuation alarms.

B. Notify the following members of Squibb Management:

- General Manager Diagnostics Division
- Diagnostics Quality Control Department Head

The following is the communications message used in reporting a site or general emergency:

STATE POLICE NOTIFICATION MESSAGE

THIS IS _____ (Name), _____ (Title)

AT _____ (Facility). I AM REPORTING A NUCLEAR INCIDENT. CONTACT THE NJ State Department of Environmental Protection IMMEDIATELY.

In the event of a drill, the message must begin and end with words:

"THIS IS A DRILL, REPEAT, THIS IS A DRILL."

E. R. SQUIBB & SONS, INC.

EMERGENCY CALL LIST

Title	Squibb Extension
V.P. and General Manager Dianostics Division	2203
Dir. Diagnostics Operation & Productivity	2806
Dir. Engineering & Maintenance	3045
Radiopharmaceutical Mfg Dept Head	3061
VP World Wide Quality Control and Quality Assurance	3191
Health Physics Department Head	2451
Health Physics Supervisor	3721
Health Physics General Supervisor	3158
Plant Security Head	2101
Director Personnel & Ind Rel	3034
Director Employee Health	2486
Manager Ind Hygiene and Safety	2885
Diagnostic Quality Control Department Head	2361

NOTE: An updated emergency list of home addresses and telephone #'s are maintained by Security and Health Physics.

U.S. Nuclear Regulatory Commission — 301-951-0550
Head Quarters Operations Center — 301-427-4056
301-492-8893
301-427-4259

a. Identify: "E. R. Squibb & Sons, Inc."
b. Give Emergency Class (Alert, Unusual event, site or general).
c. You will be transferred to Region I Duty office.

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NJ State Department of Environmental Protection Radioactive Materials Section	609-292-7172 609-530-4023
N. J. State Police	609-882-2000

5.6 Medical Transportation

Injured personnel who may also be contaminated will be transported by ambulance in a nuclear accident carrier. The carrier is equipped with glove ports (with gloves) and an air supply unit. All radioactive contamination will be contained inside the carrier, precluding the spread of contamination to the ambulance, hospital facility or rescue and medical teams.

5.7 Medical Treatment

Robert Wood Johnson University Hospital has agreed to treat all patients involved in a nuclear accident at Squibb. Representatives of the hospital have ensured that their services and capabilities are more than adequate to treat a radiation victim.

A. Procedures

1. Minor Injuries

a. Check for contamination.

b. If no contamination exists, remove protective clothing and send victim to Medical Department.

c. If contamination is present, notify Medical and decontaminate the patient as much as possible. If patient remains contaminated, send the patient to the Radiopharmaceutical Production first aid area to await Medical assistance. If patient can be completely decontaminated, send patient to the Medical Department.

d. If the wound is contaminated, wash gently with liquid soap and copious quantities of water.

e. After treatment, the patient should have a bioassay (thyroid uptake, urine analysis) or other applicable tests to determine if absorbance of contamination has occurred.

2. Major Injuries Requiring Hospitalization

a. Notify the Medical Department immediately. Monitor the areas around the victim for radiation levels.

b. If the levels are greater than 1 R/hr, remove the patient, according to the methods prescribed by the Medical Department, to a low background radiation area. Use caution not to aggravate the victim's injury.

c. If the level is less than 1 R/hr, do not move the patient until the Medical Department has determined that movement will not jeopardize his condition.

d. Determination as to the extent of the injury and the administration of proper first aid will be conducted by Medical Department or First Aid personnel.

e. If the patient is free of contamination, transfer him to the hospital by the Squibb or North Brunswick Ambulance.

f. If the patient is not completely decontaminated, wrap him in blankets and place into the patient carrier to limit the spread of contamination.

g. Place patient and ambulance emergency kit in the vehicle and transport to hospital.

h. A representative from Health Physics will accompany the victim (s) to the hospital to maintain radiological control.

Medical Department

A. Director of Employee Health

This individual is responcible for all medical problems associated with a plant disaster, assisted by other members of the Medical Department and working in cooperation with members of the First Aid Squad and the Manager of the Industrial Hygiene and Safety Department. His responsibilities include:

1. Providing adequate facilities and supplies for first aid treatment of injured employees.

2. Providing adequate means for transportation of casualties from the disaster area.

3. Establishing liaison with area hospitals.

B. Medical Supplies

These are stored in the emergency locker in Bldg. 124 and consist of air packs, towels and sheets, dosimeters for medical and first aid personnel ar' a fully equipped first aid kit. There is an emergency carrier in which severely injured patients can be decontaminated. Decontamination of less severely injured patients can be carried out in showers near the work site. The First Aid Ambulance is equipped with additional supplies including splints and oxygen.

C. Procedure

When the emergency call is received in the Medical Dept. on the day shift, a doctor and nurse will go to the First Aid Area in Bldg. 124. Simultaneously the guard in the Building 111 Gate House is notified and will dispatch the ambulance and members of the squad on duty. The decisions as to appropriate treatment and disposition will be made by the doctor.

On the second and third shifts when no doctor is present in the plant, the First Aid Squad members will report to the First Aid Area in Bldg. 124 and make the decision as to appropriate disposition. The nurse in the Medical Department is to be notified as to the number of patients and nature of injuries and will call the designated hospital with this information. If no nurse is on duty the First Aid Squad will call.

If the number of patients require it, the guard will call the North Brunswick Squad and other back-up squads as needed.

If not in the plant the Medical Director or his assistant is to be called.

D. The nurse on duty from 3:00 p.m. to 11:00 p.m. will follow the instructions outlined above.

E. From 11:00 p.m. Friday, until 7:00 a.m. Monday, or anytime when there isn't a nurse or doctor on duty, the guards and first aid groups will follow first aid instructions and assit in getting the ill or injured person to a hospital or doctor.

6.5 Emergency Monitoring Equipment

The following is a list of emergency equipment that will be available for personnel and area monitoring as well as that for assessing the release of radioactive materials into the environment:

6.5.1. Model 22A Portable Scaler Rate Meter with Single Channel Analyzer

This equipment is to be used for immediate assessments of radioactive samples. It is portable and therefore convenient and practical for inplant and out of plant operations.

6.5.2 Eberline "Teletector Survey Monitor"

This equipment is to be used for assessing radiation and high radiation areas. Its detector can be extended approximately ten feet to allow emergency personnel to obtain accurate measurements while minimizing radiation exposures to themselves.

6.5.3 G.M. Portable Survey Meter

This equipment is to be used to detect low level external contamination when monitoring operating personnel.

6.5.4 Two (2) Acceptable and Calibrated Survey Monitors

This equipment will be used for radiation survey measurements during a radiological emergency.

6.5.5 Packard Auto-Gamma Spectrometer

This equipment will be used for accurate analysis of air,

liquid and vegetation samples collected during a radiation emergency condition.

All equipment is calibrated quarterly. Back up monitoring equipment will be available in the Health Physics operations area and in the Manufacturing storage area. All equipment described will be stored in an emergency cabinet in the control coordination area except for the portable survey monitors and the Packard Auto-gamma spectrometer. The spectrometer is located in the Health Physics operational office and the survey monitors in the vicinity of the emergency control coordination area.

A meterological station is located in the emergency control coordination area and will be used in emergency conditions to provide pertinenet meteorological information.

The following is a list of equipment which will be stored in the vicinity of the emergency control coordination office:

- Model 22A Portable Scater rate meter with single channel analyzer (1)
- Eberline "teletector survey monitor" (1)
- G. M. Portable Survey Meter (1)
- High range dosimeter (5)
- Area Maps & Overlays (1)
- Walkie Talkie (1)
- Information notebook (1)
- Emergency log book (1)
- Pen and/or pencils (4)
- Felt tip marker (1)
- Coveralls (4 sets)
- Air Sampler Cartridges (filter and charcoal) (10)
- Air Sampler, Battery (1)
- Smear Papers (2 boxes)

7.3.1.1 Discussion

All members of the staff must be familiar with their duties and responsibilities in relation to the Squibb Emergency Plan. This procedure provides a means for periodic review and exercise of the Emergency Plan from a plant-wide as well as an individual standpoint.

Therefore the Emergency Director in conjunction with the senior plant management will select a simulated accident which, were it to occur, could result in a general emergency. Plans for the simulated accident will be sufficiently detailed such that simulated locations and extent of damage are described fully enough to enable simulated corrective actions to be taken. Subsequent to the initial planning, meetings will be held with members of each department to review their specific responsibilities. This exercise drill will be expanded to incorporate pertinent comments derived during these discussions. After incorporation of all comments, the finalized exercise will be presented to the plant staff to provide all members with an overall appreciation of the exercise and to point out individual areas of responsibilities. Walk-throughs may be utilized for this purpose in some cases.

After final approval by Management, appropriate offsite agencies will be contacted to confirm their level of participation and their agreement upon the date and time of the exercise.

The Emergency Director will assure that during the conduct of the exercise, an adequate number of observers are stationed at strategic locations to provide information as necessary to drill participants (e.g., radiation and contamination levels) and to evaluate individual and group performance. Evaluation will also be made of the extent and proper employment of emergency equipment including audibility of the evacuation alarms. Equipment not used during the exercise will be inventoried and will be checked if it is operable.

Evaluation of personnel performance during the exercise will be conducted in two phases. At the conclusion of the exercise, the Training Coordinator will meet with all observers to compile and summarize observations and criticisms. This compilation will be reviewed in detail in a meeting with plant management. A general summary of the critique will then be presented to the staff, emphasizing areas of strength and weakness and outlining plans for remedial training, as necessary.

8.0 RECORDS AND REPORTS

8.1 Records of Incidents

The Emergency Plan Incident report shall include the description of the incident and the cause, personnel and/or equipment involved, extent of injury and/or damage resulting from the incident, corrective actions taken to terminate the emergency, and the action taken or planned to prevent a recurrence of the incident. A Contingency Monitoring Log shall be used to record the actions of onsite and offsite support group.

The Emergency Director or his alternate shall be responsible for maintaining these records. These records shall be retained until the license is terminated.

8.2 Records of Preparedness Assurance

The following records will be maintained to confirm the preparedness to respond to radiological contingencies.

- Training and retraining
- Drills
- Equipment and Supplies
- Maintenance, surveillance, and testing of emergency equipment and supplies.
- Agreements with offsite support organizations
- Reviews and updates of the Plan and notification of all personnel and offsite agencies affected by a update of the plan and procedures.

8.3 Reporting Arrangements

In the event of a general radiological emergency, the NJ State of Environmental Protection and the U.S. Nuclear Regulatory Commission shall be promptly notified.

Release of public information concerning unusual events, alert conditions, or site emergencies, will be handled through the Squibb Public Relations Staff. The release of public information concerning general emergencies will be handled by the State.

THE CITY OF NEW BRUNSWICK

POLICE HEADQUARTERS • MEMORIAL PARKWAY • NEW BRUNSWICK, N. J. 08903

DEPARTMENT OF POLICE
(201) 745-5033

April 1, 1986

Mr. H. G. Seidler
Security Manager
E. R. Squibb & Sons, Inc.
Georges Road
New Brunswick, N.J. 08903

Dear Sir:

Be advised that in the event of a radiological emergency at the Squibb facility, the New Brunswick Police Department will provide a police officer to direct traffic at Georges Road and Ward Street.

Feel free to contact me if you have any questions concerning this and all other matters of mutual concern.

Sincerely,

William T. Conway

William T. Conway
Deputy Chief of Police

WTC:ae

19 JUN 1987

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MATERIALS LICENSE

Amendment No. 72

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, 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.

Licensee	
1. E. R. Squibb and Sons, Inc. Squibb Institute for Medical Research 2. Georges Road New Brunswick, New Jersey 08903	In accordance with letter dated February 16, 1987, 3. License number 29-00139-02 is amended in its entirety to read as follows: 4. Expiration date March 31, 1989 5. Docket or Reference No. 03C-05222

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Any byproduct material with Atomic Nos. 1-83 inclusive, except Strontium 90	A. Any	A. 5 curies of each radionuclide, with a total possession limit of 1000 curies
B. Iodine 131	B. Any	B. 150 curies
C. Molybdenum 99/ Technetium 99m	C. Any	C. 2000 curies
D. Any byproduct material with Atomic Nos. 1-83 inclusive, except Strontium 90	D. Any	D. 200 millicuries of each radionuclide with a total possession limit of 5 curies
E. Hydrogen 3	E. Any	E. 2 curies
F. Carbon 14	F. Any	F. 4 curies
G. Sulfur 35	G. Any	G. 2 curies
H. Nickel	H. Plated sources in detector cells	H. Not to exceed 15 millicuries per source
I. Any byproduct with Atomic Nos. 1-83 inclusive, except Strontium 90	I. Any	I. 10 millicuries of each radionuclide, with a total possession limit of 1 curie
J. Any byproduct material listed in Schedule B, 10 CFR 30.71	J. Any radioimmunoassay kit	J. Not to exceed limits specified for each radionuclide in Schedule B, 10 CFR 30.71

9. Authorized use

A., B., and C. (1) Research and development as defined in Section 30.4(q) of 10 CFR 30.
(2) For possession use and processing incident to the manufacture of radiochemicals and radiopharmaceuticals.

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(9. Continued)

(3) For storage prior to distribution of manufactured radiochemicals and radiopharmaceuticals.

(4) For packaging and distribution of manufactured radiochemicals and radiopharmaceuticals to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the Nuclear Regulatory Commission or an Agreement State.

D. through I. Research and development as defined in Section 30.4(q) of 10 CFR 30.

J. For demonstration by sales personnel at customer's facilities.

CONDITIONS

10. A. Licensed material in Items 6.A., B., C. and H. shall only be used at licensee's facilities at Rt. 1, North Brunswick, New Jersey.

B. Licensed material in Items 6.D., E., F., G. and H. shall only be used at licensee's facilities, Lawrenceville, New Jersey.

C. Licensed material in Item 6.H. and I. shall only be used at licensee's facilities, Princeton House, 905 Herrontown Road, Princeton, New Jersey.

D. Licensed material in Item 6.J. may be demonstrated at temporary job sites of the licensee anywhere in the United States where the Nuclear Regulatory Commission maintain jurisdiction for regulating the use of byproduct material.

11. Licensed material shall be used by, or under the supervision of, indivioual designated by the licensee's Radiation Safety Committee.

12. A(1) Each sealed source or detector cell acquired from another person and containing licensed material, other than hydrogen 3, with a half-life greater than 30 days and in any form other than gas shall be tested for contamination and/or leakage before use. In the absence of a certificate from a transferor indicating that a test has been made within 6 months before the transfer, a sealed source received from another person shall not be put into use until tested.

(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting materials or 10 microcuries or less of alpha emitting material.

(3) Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage before any use or transfer to another person unless they have been leak tested within 6 months before the date of use or transfer.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 29-00139-02

Docket or Reference number: 030-05222

Amendment No. 72

(12. continued) CONDITIONS

B. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to use or transfer as a sealed source. If the inspection or test reveals any construction defects or 0.005 microcurie or greater of contamination, the source shall not be used or transferred as a sealed source until it has been repaired, decontaminated and retested.

C. Each sealed source or detector cell containing licensed material, other than hydrogen 3, with a half-life greater than 30 days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed 6 months except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed 3 months.

D. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

E. If the test required by Subsection A. or C. of this condition reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U. S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch, 631 Park Avenue, King of Prussia, Pennsylvania 19406, describing the equipment involved, the test results, and the corrective action taken.

13. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), of 10 CFR Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.

14. Detector cells containing titanium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 225 degrees Centigrade.

15. Detector cells containing scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 325 degrees Centigrade.

(continued) CONDITIONS

16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.

17. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".

18. Experimental animals administered licensed materials or their products shall not be used for human consumption.

19. Licensed material shall not be used in or on human beings.

20. This license does not authorize the distribution of byproduct material for medical use under general license pursuant to Paragraph 35.31, 10 CFR 35.

21. This license does not authorize the commercial distribution of exempt quantities of licensed material pursuant to Section 30.18, 10 CFR 30, and Section 32.18, 10 CFR 32.

22. The licensee shall maintain, and execute the response measures of his Radiological Contingency Plan submitted to the Commission on June 29, 1981, as revised on December 4, 1981, March 17, 1982, May 27, 1983, April 3, 1985, August 6, 1985, April 1, 1986 and June 12, 1986. The licensee shall also maintain implementing procedures for his Radiological Contingency Plan as necessary to implement the Plan. The licensee shall make no change in his Radiological Contingency Plan that would decrease the response effectiveness of the Plan without prior Commission approval as evidenced by license amendment. The licensee may make changes to his Radiological Contingency Plan without prior Commission approval if the changes do not decrease the response effectiveness of the Plan. The licensee shall maintain records of changes that are made to the Plan without prior approval for a period of two years from the date of the change and shall furnish the Chief, Material Licensing Branch, Division of Fuel Cycle and Material Safety, NMSS, U.S. Nuclear Regulatory Commission, Washington, D.C., 20555, and the appropriate NRC Regional office specified in Appendix D of 10 CFR Part 20, a report containing a description of each change within six months after the change is made.

23. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided:

    A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.

    B. Before disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 29-00139-02

Docket or Reference number: 030-05222

Amendment No. 72

(Continued) CONDITIONS

24. 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. Letter dated June 29, 1981
B. Letter dated December 4, 1981
C. Letter dated March 17, 1982
D. Letter dated June 22, 1982
E. Letter dated December 15, 1982
F. Application dated May 17, 1983
G. Letter dated May 27, 1983
H. Letter dated June 6, 1983
I. Letter dated July 11, 1983
J. Letter dated October 17, 1983
K. Letter dated December 14, 1983
L. Letter dated February 17, 1984
M. Letter dated September 10, 1984
N. Letter dated February 7, 1985
O. Letter dated April 3, 1985
P. Letter dated July 5, 1985
Q. Two letters dated August 5, 1985
R. Letter dated August 6, 1985
S. Letter dated December 4, 1985
T. Letter dated February 24, 1986
U. Letter dated April 1, 1986
V. Letter dated June 12, 1986
W. Letter dated July 29, 1986
X. Letter dated December 1, 1986
Y. Letter dated December 16, 1986
Z. Two letters dated February 16, 1987

Date 13 APR 1987

For the U.S. Nuclear Regulatory Commission

By _____

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406

Docket No. 030-05222

TO: C. James Holloway, License Fee Management Staff, ADM

SUBJECT: MATERIALS LICENSE AMENDMENT CLASSIFICATION

APPLICANT: E.R Squibb & Sons, Inc.

License No: 29-00139-02 Fee Category: _____

Application Dated: June 15, 1987 Received: June 19, 1987

1. The above application for amendment has been reviewed by NMSS/REGIONAL OFFICE in accordance with §170.31 of Part 170, and will require an amendment to the license. 3A

2. The application is not subject to fees because it was filed

(a) _____ pursuant to written NRC request and the amendment is being issued for the convenience of the Commission,

or (b) _____ Other (State reason) X

the update of the Radiological Contingency Plan does not decrease or increase the effectiveness of the plan.

Signature [signature]

Date 8/18/87

0300 5222
03211
3/87

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

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

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: E. R. Squibb & Sons

Application Dated: 6-15-87

Control No.: 115

License No.: 29-00134-02

2. FEE ATTACHED

Amount: ϕ

Check No.: ϕ

3. COMMENTS

Signed M. Weisenberger

Date 6-23-87

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3A

2. Correct Fee Paid. Application may be processed for:

Amendment Y

Renewal _____

License _____

Signed J. Kennedy

Date 7/8/87

REGION I FORM 213
(MARCH 1983)