Du Pont

Biotechnology Systems

Quality Assurance Program for Radioactive Material Packages

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1.0 Introduction and Scope

- 1.1 Du Pont Biotechnology Systems in Boston is a manufacturer and distributor of radiochemicals for a broad spectrum of user research applications. These radioactive materials are predominantly shipped in small quantities as Type A packages. However, the radioactive raw material for the manufacturing operations may be shipped to the site in Type B quantities and, on occasion, a Type B quantity is shipped out to a customer.
- 1.2 The Du Pont company policy requires that all activities which are governed by: the Code of Federal Regulations; licenses; certifications of compliance; letters of approval; or other regulatory requirements, be conducted in accordance with written, approved procedures which incorporate the regulatory requirements in a manner which is easily understood by the user. Quality-related activities shall be performed with specified equipment and under suitable environmental conditions. Adherence to the procedure requirements is mandatory for all employees. All procedures required to assure health and safety must be submitted to the site's Radioisotope Committee for approval prior to implementation.
- 1.3 This Quality Assurance Program describes the primary policies and procedures to be used at the Boston site by the Du Pont Company to control safety-related functions involved in the purchasing, handling, shipping, storing, and inspection, of Type B packaging for radioactive material.

All Type B containers are purchased or leased from a qualified manufacturer or supplier of Type B containers. The Du Pont operations at the Boston Site do not design, fabricate, or modify Type B containers. The Quality Assurance criteria for these functions are delegated to the container manufacturer.

- 1.4 The Boston Site management of Du Pont has approved, and requires adherence to, the policies, procedures, and objectives of this program.
- 1.5 Revisions or additions to this program will be made as necessary to conform to the current regulatory requirements. Such revisions will be incorporated and cited on the revision page of this program document.

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Copies of this Quality Assurance Program are available to regulatory agencies, as required, and issued to each operative unit identified in the program. Assigned copies of this procedure will have controlled distribution and documented revision.

2.0 Organization and Responsibility

- 2.1 The administration of this Quality Assurance organization within the Boston Site is audited by the site's Radioisotope Committee (RIC), the members of which represent the controlling levels of management for each of the operative program areas. The RIC members manage the following functions affected by this program:
 - a. Compliance with the Department of Transportation hazardous materials regulations;
 - b. Quality control;
 - c. Distribution and transportation.

The functions of the Quality Assurance Program are directed by the Quality Assurance Program Manager, within the scope of this program. The Quality Assurance Program Manager is directed by the Manager of Safety and Environmental Affairs.

This reporting route was selected specifically to allow the Quality Assurance Program Manager sufficient authority to implement and direct the Boston Site's Quality Assurance Program to assure conformance to quality requirements and to function independent of undue influence and responsibilities for schedules and costs (see figure 1-1).

2.1.1. In order to assure effective implementation, assess the scope and status, and determine the effectiveness of the Quality Assurance Program, the Manager of Safety and Environmental Affairs (a member of site senior management) is granted broad authority to execute these functions through the use of internal audits, site investigations, customer/user service reports, and internal reporting procedures.

2.1.2 The D.O.T. Compliance Officer is responsible for ensuring compliance with the Departm int of Transportation hazardous materials regulations.

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2.1.3 The Area Supervisor, Safety and Environmental Affairs, or qualified designee, is responsible for implementing all program elements relating to the purchased or leased Type B containers utilized for radiological waste shipments.

2.1.4 The specific Operations Management representative is responsible for implementing all program elements relating to purchased or leased Type B containers utilized for product shipments for their own operations.

2.1.5 The Operations Manager of Distribution, or qualified designee, is responsible for compliance with the Department of Transportation hazardous material safety regulations, and for assuring that all Quality Assurance controls are performed prior to shipping and/or transporting Type B containers.

2.1.6. Any of the above listed individuals, or their designee, may be a member of the RIC.

- 2.2 The RIC has the authority, specified in written procedures, to perform the following functions effectively;
 - a. Identify quality problems, specify corrective actions, and control the disposition of non-conforming material
 - Recommend and/or approve corrective actions through proper channels
 - c. Verify implementation of corrective actions
- 2.3 Position descriptions of the Quality Assurance Program Manager and all Quality Assurance personnel include prerequisite experience and/or required training, which assures competence to perform the assigned duties.

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Figure 1-1

Site Operations Manager I Manager, Safety and Environmental Affairs Radioisotope Committee I Quality Assurance Program Manager Site D.O.T. Compliance Officer I Radiation Protection Manufacturing Distribution Office & Packaging Office

3.0 Quality Assurance Program

The Quality Assurance Program is comprised of those planned and systematic actions necessary to assure adequate confidence that all activities are conducted in a satisfactory manner and that all equipment and materials will perform satisfactorily in service. The intent of this program is to insure that all activities are conducted in a manner with the degree of reliability on which safety and performance of these activities were evaluated. The Quality Assurance Program applies to the purchase, use, handling, storage, and shipping of Type B containers.

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3.1 <u>Procedures cross-referenced to the 18 Criteria of</u> <u>10 CFR 71. Appendix E</u>

Key:	L	Organization
	11.	Quality Assurance
	111.	Design Control
	IV.	Procurement Document Control
	V.	Instructions, Procedures, and Drawings
	VI.	Document Control
	VII.	Control; Purchased Materials, Equipment, Services
	VIII.	Identification and Control of Materials
	IX.	Control of Special Processes
	Χ.	Inspection
	XI.	Test Control
	XII.	Control of Measuring and Test Equipment
	XIII.	Handling, Storage, and Shipping
	XIV.	Inspection, Test, and Operating Status
	XV.	Non-conforming Materials, Parts, or Components
	XVI.	Corrective Action
	XVII.	Quality Assurance Records
	XVIII.	Audits

Procedure #

Title

Criteria Addressed

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TSC-1/QA-6	Document Control	VI	
TSC-1/QA-7	Control of Purchased Material	VII	
TSC-1/QA-8	Identification and Control of Materials		
TSC-1/QA-9	Inspections		
TSC-1/QA-10	Handling, Storage, and Shipping		
TSC-1/QA-11	Nonconforming Materials	XV	
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TSC-1/QA-13	Quality Assurance Records	XVII	
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TSC-1/QA-7 TSC-1/QA-8 TSC-1/QA-9 TSC-1/QA-10 TSC-1/QA-11 TSC-1/QA-12 TSC-1/QA-13	Control of Purchased Material Identification and Control of Materials Inspections Handling, Storage, and Shipping Nonconforming Materials Corrective Action Quality Assurance Records	VII VIII X XIII XV XVI XVI	

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4.0 Procurement Document Control

The procurement of Type B containers is accomplished with a written Purchase Order. Purchase order forms are controlled and in the possession of a limited number of individuals. Only these individuals are authorized to release Purchase Orders, and are responsible for conforming with established procurement and record-keeping procedures.

The Du Pont Boston site policy requires the review of procurement documents by the responsible operation or site manager. When the operation or site manager (or delegate) determines that the procurement action is governed by an applicable standard, specification, code, regulation, license, or Certificate of Compliance, the procurement document is submitted to Quality Assurance for review and approval.

The Quality Assurance reviewer examines the procurement document to ensure that complete information is provided to identify:

- a. The applicable 10 CFR Part 50, Appendix B and 10 CFR 71 Appendix E requirements which must be addressed;
- b. The technical requirements, including the applicable regulatory requirements, identification requirements, specifications, codes, and industrial standards;
- c. The documentation to be prepared, maintained, and submitted to the purchaser for review and approval;
- d. The procuring agency's right of access to supplier's records for inspection and audit;
- e. Quality requirements, which must be correctly stated, inspectable and controllable, with adequate acceptance and rejection criteria.

The individual authorized to control and release Purchase Orders prepares this document, incorporating all applicable information referenced in the preceding paragraph. One copy of all Purchase Orders is maintained in a control file.

Original and revised procurement documents must be clearly annotated to indicate the completion of the aforementioned review and approval sequence. Record copies must be maintained in accordance with document control procedures in effect at time of preparation.

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5.0 Instructions, Procedures, and Drawings

Activities affecting quality are prescribed by documented instructions, procedures, or drawings of a type appropriate to the circumstance.

The purpose of the instructions, procedures, or drawings, is to provide and communicate standards for quality determination and are directed at maintaining an overall quality program.

Procedures and instructions are prepared by the cognizant site operation. All instructions and procedures are maintained current with a documented method of revision. Instructions, procedures, and drawings are readily available to personnel at locations requiring their use.

The Boston Site Quality Assurance organization will review instructions, procedures, or drawings to insure that adequate quantitative and qualitative acceptance criteria are present.

6.0 Document Control

The Boston Site written procedures, procedure control specifications, instructions, and their respective changes, are required to insure adequacy.

6.1 Document-types Control

The control includes all documents and their changes affecting the quality program. These documents include, but are not limited to, specifications, procurement documents, Quality Assurance manuals, and inspections. The control system provides adequate and timely distribution of all documents to recipients listed on a document distribution list, and prompt removal of all obsolete documentation from defined document control centers.

6.2 Document Review

All safety related documents are reviewed and approved by the Du Pont Boston Site Quality Assurance organization.

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6.3 Document Control

Execution of an effective control system requires the following:

- a. Each document shall have an identifying number and a complete descriptive title;
- Each document shall have a means for identifying the revision status and effective date of each revision.

The number of document copies made and issued is controlled by a document distribution list maintained in the document file. The removal of obsolete documents, procedures, details, forms, etc. is accomplished immediately when such material is made obsolete by new or revised documents. Obsolete documents are destroyed except for a history copy maintained in the document file. Procedures and their changes are distributed on a formal basis and are of standard format. In case of emergency, however, approved handwritten procedures or mark-up changes, can be considered satisfactory as long as they are converted to the standard form and become official within 30 days.

6.4 Document Change Control

All proposed changes are reviewed by Quality Assurance prior to approval to determine the effect of the change and the resultant changes.

6.5 Document Availability

Documents will be available, prior to commencement of work, at the location where activities involving them are to be performed.

7.0 Control of Purchased Material

The procurement control methods uses established measures to assure that procured items are clearly and adequately specified in procurement documents and supplied by vendors who are capable of producing items which consist of procedures or instructions, include provisions for vendor evaluation and review of procurement requirements.

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7.1 Supplier Evaluation

Boston Site Quality Assurance personnel participate in evaluation of procurement sources. Recommendation of procurement sources is based on these evaluations. Results of supplier evaluations performed prior to contract awaid are documented and filed. The evaluations cover review of capabilities and include the following:

- a. Historical performance data, particularly in product quality and delivery;
- Review and comment on supplier's Quality Assurance program.

The evaluation considerations include the elements of the NRC Quality Assurance Criteria delegated to the supplier to the extent these criteria are applicable to the container being purchased or leased.

7.2 Receiving Inspection

Receipt inspections are performed on leased or purchased items to insure that:

- a. Material is properly identified and corresponds to the receiving documentation.
- Material is inspected and judged acceptable in accordance with specified requirements prior to use;
- c. Inspection records attesting to the acceptance of material are available and are filed with the Quality Assurance Program Manager.
- d. Items accepted and released are identified as to their inspection status prior to forwarding them to controlled storage areas or releasing them for use.
- 7.3 Supplier Audit

Measures used for auditing suppliers are described in the Audit section of this document.

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8.0 Identification and Control of Purchased Containers

The identification and control described herein applies to all purchased Type B containers from the time of receipt of the containers.

The inspection status of all containers must be evident at all times. This will be accomplished by marking, tagging, or stamping.

Identification of containers with an identifying number must be accomplished with a method that will provide legible identification as permanent as the normal life expectancy of the item marked, without adverse effect on its life and utility.

Containers not suitable for individual marking must be individually tagged.

The storage area will contain only those containers which have been inspected and accepted.

9.0 Inspection

The established inspection program at the Boston Site verifies the performance of quality related activities within the applicable requirements. The verification is performed in accordance with written inspection procedures. The inspection program also provides for identification and documentation of deficiencies discovered during inspection and the required corrective action.

9.1 Inspection Procedures

Inspection procedures and instructions are written documents which provide the following information:

- a. Identification of activities to be inspected;
- Identification of the individual's responsibilities for performing the inspection;
- c. Acceptance and rejection criteria;
- d. A description of the inspection method;
- Recording evidence of completing and verifying an operation;

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 Recording inspector or data recorder and the results of the inspection operation.

Inspection procedures and/or instructions are maintained current by established document control measures.

10.0 Handling, Storage, and Shipping

Quality Assurance requirements for Type B packaging, handling, storage, and shipping must be documented.

Prior to the shipment and/or transportation of a container, all conditions of the Quality Assurance Program must be satisfied. We shipment is properly described, and the container properly marker disclosed according to the applicable regulations of the Department of Transportation.

11.0 Nonconforming Materials

Procedures for control of nonconforming matchial assure that such materials are identified and segregated from acceptable materials to preclude their inadvertent use.

11.1 Nonconformance Disposition

The Quality Assurance personnel have the responsibility and the authority for the disposition of nonconforming items.

11.2 Assessment of Nonconformance

Nonconformance instances must be analyzed periodically to show quality trends of a manufacturer or supplier. Instances of nonconformance must be documented and retained within the procurement documents.

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12.0 Corrective Action

Du Pont Quality Assurance personnel at the Boston Site must evaluate conditions adverse to the quality standards to determine the need for corrective action. Corrective action must be promptly initiated when it is determined that the condition is due to an assignable cause and is repetitive in nature.

The corrective action procedure is divided into five steps:

- a. Investigate the condition;
- b. Determine the cause;
- c. Define the corrective action;
- d. Implement the corrective action;
- e. Evaluate the corrective action.

Specific individuals from appropriate site organizations must be assigned the responsibility of accomplishing each of the phases. The results of each phase must be door mented and become part of the corrective action. Quality Assurance must review records to verify proper implementation of corrective action. The corrective action documentation must not be closed out until results of the corrective action have been evaluated and approved by Quality Assurance.

13.0 Quality Assurance Records

13.1 Maintenance and Access to Records

The records system maintained at the Boston Site includes the retention of the procurement, inspection, and nonconformance records essential to demonstrate container quality. All records are maintained according to established procedures and will be identifiable and retrievable.

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13.2 Contents of Record Files

It is the policy of the Quality Assurance organization to maintain adequate records of all procurement, nonconformance, and inspection. Inspection must contain the following where applicable:

- a. A description of the type of observation;
- Evidence of completing and verifying the inspection operation;
- c. The date and results of the inspection;
- d. Information relating to conditions adverse to quality;
- e. Inspector or data recorder identification;
- f. Evidence as to the acceptability of the results;
- g. Identification of the procedure(s) used.

Records must also be maintained of the supplier's Quality Assurance programs and documents pertaining to the Boston Site's internal Quality Assurance audits. File of personnel qualifications and training must also be maintained.

14.0 Audits

Planned audits must be performed to provide comprehensive, independent verification and evaluation of the Boston Site's Quality Assurance Program and that the supplier has an NRC approved Quality Assurance Program. The audit scope must encompass an evaluation of quality system practices and/or procedures and the effectiveness of their implementation, monitoring of operations, and activities, and a review of pertinent documents and their maintenance and control. Audit checklists must be established prior to conducting an audit.

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14.1 Audit Schedule

Internal audits must be conducted routinely once every twelve months. However, unscheduled audits may be performed more frequently in specific areas, when the need is indicated by the existence of chronic problems. All audits must be performed on a random, unannounced bas, to ensure optimum effectiveness and a prompt disclosure of deficiencies.

14.2 Audit personnel

Audits must be performed by the Manager, Safety and Environmental Affairs (or designee) and an additional site operations representative with no direct line responsibility for the function audited. The operations' representative must have the required level of technical capability to accomplish the audit functions satisfactorily and to conform to the requirements.

14.3 Audit Reports

A verbal presentation of the findings and conclusions of the audit is made to the Radioisotope Committee. Recommendations for quality related improvement are presented as well. A written report containing the findings and recommendations reviewed in the verbal report is prepared and distributed to the responsib's management personnel affected by the audit findings. Audits must include an assessment as to how well the Quality Assurance Program meets regulatory or other requirements.

14.4 Follow-Up

The originator of an audit report or a designated alternate is required to follow an open item until action is taken to satisfy an audit action item. Records of actions taken to achieve resolution are maintained. Follow-up actions are taken to verify corrective action is effective. Responsible Quality Assurance personnel must evaluate each audit report item and correct dehciencies as promptly as possible after they are revealed.

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TYPE B CON	TAINER SHIPPING INSPECTION	
Name: Date:	Bidg. : Time:	-
Customer Name:		
Dity, State, ZIP Code	Container Serial #	
Weight Ibs Kg	Container Serial # NRC Certification #	
External Wipe Survey (MUST B	E LESS THAN 2200 dpm/100cm ²)	
Top Botton	n Side	
Surface Radiation (MUST BE LE Top Botton	the second s	
Transport Index (MUST BE LESS Top Botton		
Physica! Appearance Note any damage :		

SHIPPING INFORMATION

Proper Shipping Name
() Radioactive Material, N.O.S UN 2982
() Radioactive Material, L.S.A., N.O.S. UN 2912
() Radioactive Material, Empty Packages, UN2908
() Radioactive Material, Articles, Manufactured from Depleted Uranium, UN2909

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ADDITIONAL ENTRIES REQUIRED	,		
- Name or symbol of each ra	dionuclic	des	
 Total a livity in GBq Physical State (solid, liquid, 	gas)		
- Chemical Form : (circle one Laboratory Waste)	Calibration Source	
Container Shielding		Radiopharmaceu	ticals
Inorganic Salt - Labels Applied		Other	current and a
- TI (Y II or Y III)			
- Dimensions (metric)	×	X	
() Passenger			
() Cargo Only	Lab	els Affixed	
	ALC BALLON		
OTHER REQUIREMENTS			
OTHER REQUIREMENTS () Security Seal Affixed			
OTHER REQUIREMENTS () Security Seal Affixed () Opening Instructions Affix	red		
OTHER REQUIREMENTS () Security Seal Affixed () Opening Instructions Affix () Non Applicable Labels R	(ed emoved		
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OTHER REQUIREMENTS () Security Seal Affixed () Opening Instructions Affix () Non Applicable Labels R DPERATOR DISTRIE DISTRIE DISTRIE Carrier Ship Date () Attach Cop SYSTEMS : Carrier Context	emoved INSPE INSPE 	CTOR DEPARTMENT BOL# nin. Preparer vay Bill/Bill of Lading	
OTHER REQUIREMENTS () Security Seal Affixed () Opening Instructions Affix () Non Applicable Labels R DPERATOR DISTRIE DISTRIE DISTRIE Carrier Ship Date () Attach Cop SYSTEMS: Carrier Contact Proof of Delivery : Date	emoved INSPE INSPE AWB/ Adr Adr	CTOR DEPARTMENT BOL# nin. Preparer vay Bill/Bill of Lading	

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TYPE B	CONTAINER RECEIVING INSPECTION	
Date:	Time:	
Shipper Name: Address:		
External Wipe Survey (MUS	Container Serial # NRC Certification# Expiration Date ST BE LESS THAN 22,000 dpm/100cm ²) mSide	
Surface Radiation: (MUST Top Botto	BE LESS THAN 200 mR/hr) m Side	
Transport Index (MUST BE Top Botto	LESS THAN 10 mR/hr) m Side	
Physical Appearance: Note any Damage: Security seal Intact	(Y/N)	-
	e information corresponds to container	
Item:	Shipping Documents Container	
Isotope (Nuclides) Quantity Physical Form Label Type TI Proper Shipping Name Handling Labels Other		
	o your immediate supervisor	
Operator:		

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Container released to:		
B!dg# Lab#	Time By_	<u></u>
Container Received by:		
Bldg#Lab#	Time	
Opening Inspection: (attach vendo	or drawing & opening instru	uctions)
Security seal removed (Y/N)		
Outer Container Bolt(s) Removed	(Y/N) No. of Bolt	S
Inner (2R) container present (Indicate No. of turns required to c	Y/N)	······
Primary container intact (Y/N)		
Comments	an allen e de anne e de anne bleve en fagle and e anne an	
Empty Container Storage Locatio	n	
Operator	Witness	
REASSEMBLE CONTAINER:		
Primary container removed (Y/N) Inner (2R) container present	(Y/N)	
Indicate No. of turns required to a Inner Container Bolts Secured		
Outer Container Bolt(s) Secured Security Seal Affixed (Y/N)	(Y/N) No. of Bolts	s
Operator	Witness	1
QA Program	orward this form to; Manager, Tritium Prec Ildg. 575-5/Boston	ursors