APPENDIX B

MATERIALS PROCESSOR/MANUFACTURER INSPECTION REFERENCES

1. ORGANIZATION AND SCOPE OF PROGRAM

License application and applicable license conditions.

2. MANAGEMENT OVERSIGHT

A. Radiation Safety Committee

Applicable license conditions.

B. Radiation Safety Officer

Applicable license conditions.

C. Audits, Reviews, or Inspections

10 CFR 20.1101 Radiation protection programs.

10 CFR 20.2102 Records of radiation protection programs.

Applicable license conditions.

D. ALARA

10 CFR 20.1101 Radiation protection programs.

E. Authorized Users

Applicable license conditions.

3. FACILITIES

A. Access Control

10 CFR 20.1601, 1602 Control of access to high/very high radiation areas.

10 CFR 20.1801 Security of stored material

10 CFR 20.1802 Control of material not in storage

Applicable license conditions.

B. Engineering Controls

10 CFR 20.1101 Radiation protection programs.

10 CFR 20.1701 Use of process or other engineering controls.

Applicable license conditions.

4. EQUIPMENT AND INSTRUMENTATION

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A. Survey Instruments

10 CFR 20.1501 General.

10 CFR 20.1701 Use of Process or Other Engineering Controls.

10 CFR 20.2103 Records of Surveys.

Applicable license conditions.

B. Safety Component Defects

10 CFR 21.21 Notification of failure to comply or existence of a defect

and its evaluation.

5. MATERIAL USE, CONTROL AND TRANSFER

A. License and applicable license conditions.

B. Security and Control

10 CFR 20.1003 Definitions (restricted area and unrestricted area)	10 CFR 20.1003	Definitions	(restricted area and	unrestricted area)
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10 CFR 20.1801 Security of stored material.

10 CFR 20.1802 Control of material not in storage.

C. Receipt and Transfer of Licensed Material

10 CFR 20.1302 Complian	ce with dose lir	mits for individu	al members
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of the public.

10 CFR 20.1906 Procedures for receiving and opening packages.

10 CFR 20.1501 Surveys.

10 CFR 20.2103 Records of surveys.

10 CFR 30.41 Transfer of byproduct material.
10 CFR 30.51 Records of receipt and transfer.

6. AREA RADIATION SURVEYS AND CONTAMINATION CONTROL

A. Area Surveys

10 CFR 20.1302	Compliance	with dose	limits fo	or individual	members
10 01 11 20.1002	Compliance	WILL GOOD	1111111010	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11101110010

of the public.

10 CFR 20.1501 General.

10 CFR 20.2103 Records of surveys.

10 CFR 20.2107 Records of dose to individual members of the

public.

Applicable license conditions.

B. Leak Tests and Inventories

Applicable license conditions.

7. TRAINING AND INSTRUCTIONS TO WORKERS

A. General

10 CFR 19.12 Instruction to workers.

10 CFR Part 20 Radiation protection procedures and requirements.

Applicable license conditions.

8. RADIATION PROTECTION

A. Radiation Protection Program

1. Exposure evaluation

10 CFR 20.1501 General.

2. Programs

10 CFR 20.1101 Radiation protection programs.

B. Dosimetry

1. Dose Limits

10 CFR 20.1201	Occupational dose limits for adults.
10 CFR 20.1202	Compliance with requirements for summation of
	external and internal doses.
10 CFR 20.1207	Occupational dose limits for minors.
10 CFR 20.1208	Doses to an embryo/fetus.

2. External

10 CFR 20.1203	Determination of external dose from airborne radioactive material.	
10 CFR 20.1501	General.	
10 CFR 20.1502	Conditions requiring individual monitoring of external and internal occupational dose.	
Applicable license conditions.		

3. Internal

10 CFR 20.1204	Determination of internal exposure.
10 CFR 20.1502	Conditions requiring individual monitoring of
	external and internal occupational dose.
10 CFR Part 20	Respiratory protection and controls to restrict
	Subpart H internal exposure in restricted areas.

C. Records

10 CFR 20.2102	Records of radiation protection programs.
10 CFR 20.2103	Records of surveys.
10 CFR 20.2104	Determination of prior occupational dose.
10 CFR 20.2106	Records of individual monitoring results.

9. RADIOACTIVE WASTE MANAGEMENT

A. Disposal

10 CFR 20.1904 Labeling containers.

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10 CFR 20.2001	General requirements.
10 CFR 20.2103	Records of surveys.
10 CFR 20.2108	Records of waste disposal.
10 CFR 20.2003	Disposal by release into sanitary
	sewerage.

B. Effluents

1. General

IP 87102 Maintaining Effluents from Materials

Facilities As Low As Is Reasonably

Achievable (ALARA).

2. Release to septic tanks

10 CFR 20.1003 Definitions (sanitary sewerage).
10 CFR Part 20,
Appendix B, Table 2 Effluent Concentrations.

3. Incineration of waste

10 CFR 20.2004 Treatment or disposal by incineration.

4. Control of air effluents and ashes

10 CFR 20.1201 Occupational dose limits for adults.

10 CFR 20.1301 Dose limits for individual members of the

public.

10 CFR 20.1501 General.

10 CFR 20.1701 Use of process or other engineering

controls.

Applicable license conditions

C. Waste Management

General

10 CFR 20.2001 General requirements.

IP 84850 Radioactive Waste Management -

Inspection of Waste Generator

Requirements of 10 CFR Part 20 and 10

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CFR Part 61.

2. Waste compacted

Applicable license conditions.

3. Waste storage areas

10 CFR 20.1801 Security of stored material.
10 CFR 20.1902 Posting requirements.
10 CFR 20.1904 Labeling containers.

Applicable license conditions.

4. Packaging, Control and Tracking

10 CFR Part 20 Requirements for Low-Level Waste

Transfer Appendix F for Disposal at Land

Disposal Facilities and Manifests.

10 CFR 20.2006 Transfer for disposal and manifests.

10 CFR 61.55 Waste classification.

10 CFR 61.56 Waste characteristics.

5. Transfer

10 CFR Part 20 Requirements for Low-Level Waste

Transfer Appendix F for Disposal at Land

Disposal Facilities and Manifests.

10 CFR 20.2001 General requirements.

10 CFR 20.2006 Transfer for disposal and manifests.

6. Records

10 CFR 20.2103 Records of surveys.

10 CFR 20.2108 Records of waste disposal.

10. DECOMMISSIONING

10 CFR 30.35 Financial assurance and record keeping for

decommissioning.

10 CFR 30.36 Expiration and termination of licenses and

decommissioning of sites and separate buildings or

outdoor areas.

IMC 2602 Decommissioning Inspection Program for Fuel

Cycle Facilities and Materials Licensees.

IP 87104 Decommissioning Inspection Procedure for

Materials Licensees.

IMC 2605 Decommissioning Procedures for Fuel Cycle and

Materials Licensees.

NUREG/BR-0241 NMSS Handbook for Decommissioning Fuel

Cycle and Materials Licensees.

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11. TRANSPORTATION

A. General

NRC Charts Hazard Communication for Class 7

(Radioactive) Materials.

10 CFR 71.5 Transportation of licensed material.

TI 2515/133 Implementation of Revised 49 CFR Parts

100-179 and 10 CFR Part 71.

B. Shippers Requirements for Shipments and Packaging

1. General Requirements

49 CFR Part 173 Class 7 (radioactive) materials.

Subpart I

49 CFR 173.24 General requirements for packaging and

packages.

49 CFR 173.448 General transportation requirements.

49 CFR 173.435 Table of A₁ and A₂ values for

radionuclides.

2. Transport Quantities

10 CFR 71.4 Definitions.

a. All quantities

10 CFR 71.4 Definitions.

49 CFR 173.410 General design requirements.

49 CFR 173.441 Radiation level limitations.

49 CFR 173.443 Contamination control.

49 CFR 173.475 Quality control requirements prior to each

shipment of Class 7 (radioactive) materials.

49 CFR 173.476 Approval of special form Class 7

(radioactive) materials.

b. Limited quantities

49 CFR 173.421 Excepted packages for limited quantities of

Class 7 (radioactive) materials.

49 CFR 173.422 Additional requirements for excepted

packages containing Class 7 (radioactive)

materials.

c. Type A quantities

49 CFR 173.412 Additional design requirements for Type A

packages.

49 CFR 173.415 Authorized Type A packages.

49 CFR 178.350 Specification 7A; general packaging,

Type A.

d. Type B quantities

IP 86740, Section 2 Inspection of Transportation activities.

e. LSA material and SCO

49 CFR 173.403 Definitions.

49 CFR 173.427 Transport requirements for low specific

activity (LSA) Class 7 (radioactive)

materials and surface contaminated objects

(SCO).

3. HAZMAT Communication Requirements

49 CFR 172.200-205 Shipping papers.

49 CFR 172.300-338 Marking.

49 CFR 172.400-450 Labeling.

49 CFR 172.500-560 Placarding.

49 CFR 172.600-604 Emergency response

information.

C. HAZMAT Training

49 CFR 172.702 Applicability and responsibility for training and testing.

49 CFR 172.704 Training requirements.

D. Transportation by Public Highway

49 CFR 171.15 Immediate notice of certain hazardous materials incidents.

49 CFR 171.16 Detailed hazardous materials incident reports.

49 CFR 177.800 Purpose and scope of this part and responsibility for

compliance and training.

49 CFR 177.816 Driver training.

49 CFR 177.842 Class 7 (radioactive) material.

12. <u>NOTIFICATIONS AND REPORTS</u>

10 CFR 19.13 Notifications and reports to individuals.

10 CFR 20.2201 Reports of theft or loss of licensed material.

10 CFR 20.2202 Notification of incidents.

10 CFR 20.2203 Reports of exposures, radiation levels, and concentrations of

radioactive material exceeding the constraints or limits.

10 CFR 30.50 Reporting requirements.

13. POSTING AND LABELING

10 CFR 19.11 Posting of notices to workers.

10 CFR 21.6 Posting requirements.

10 CFR 20.1902 Posting requirements.

10 CFR 20.1903 Exemptions to posting requirements.

10 CFR 20.1904 Labeling containers.

10 CFR 20.1905 Exemptions to labeling requirements.

14. INDEPENDENT AND CONFIRMATORY MEASUREMENTS

No references.

15. VIOLATIONS, NON-CITED VIOLATIONS, AND OTHER SAFETY ISSUES

NUREG/BR-0195, Rev.1

NRC Enforcement Manual.

NUREG-1600

General Statement of Policy and Procedures for NRC

Enforcement Actions.

16. SOURCE OR DEVICE REVIEW

10 CFR 32.210 Registration of product information.

17. PERSONNEL CONTACTED

No references.

END