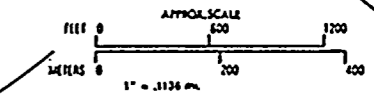


FIGURE 5.1-1
 Nine Mile Point On-Site Map

- △ - Environmental Sample Location
- SW - Compass Coordinate
- (M) - Sector Designation
- 180° - Radian Angle from North



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 APERTURE
 CARD**

Also Available on
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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION UNIT 1

REVISION 01

UNIT 1 RADWASTE PROCESS CONTROL PROGRAM

Approved by:
K. A. Dahlberg

K.A. Dahlberg

Plant Manager - Unit 1

12/1/93
Date

INFORMATION ONLY

THIS IS A FULL REVISION

Effective Date: 12/8/93

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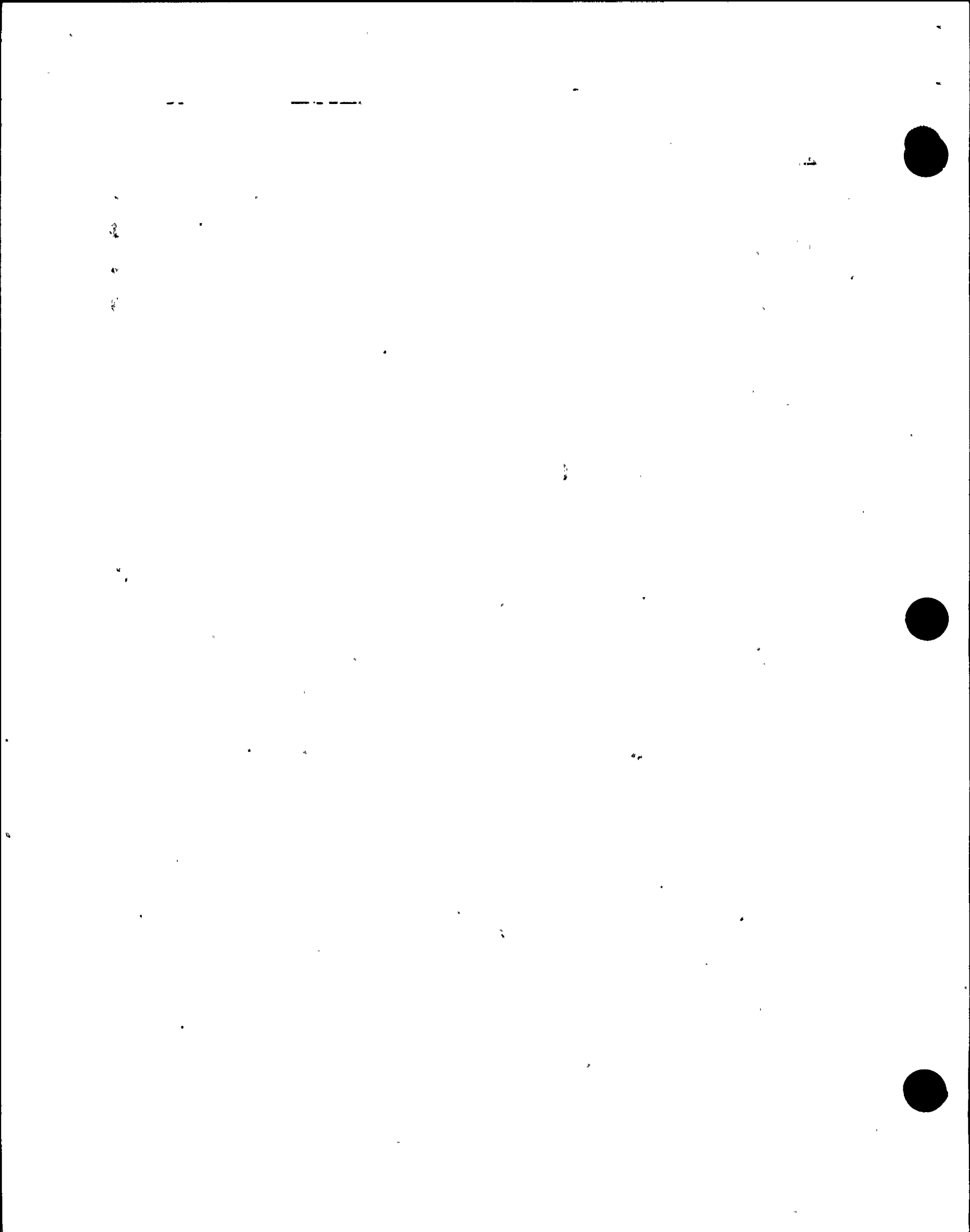
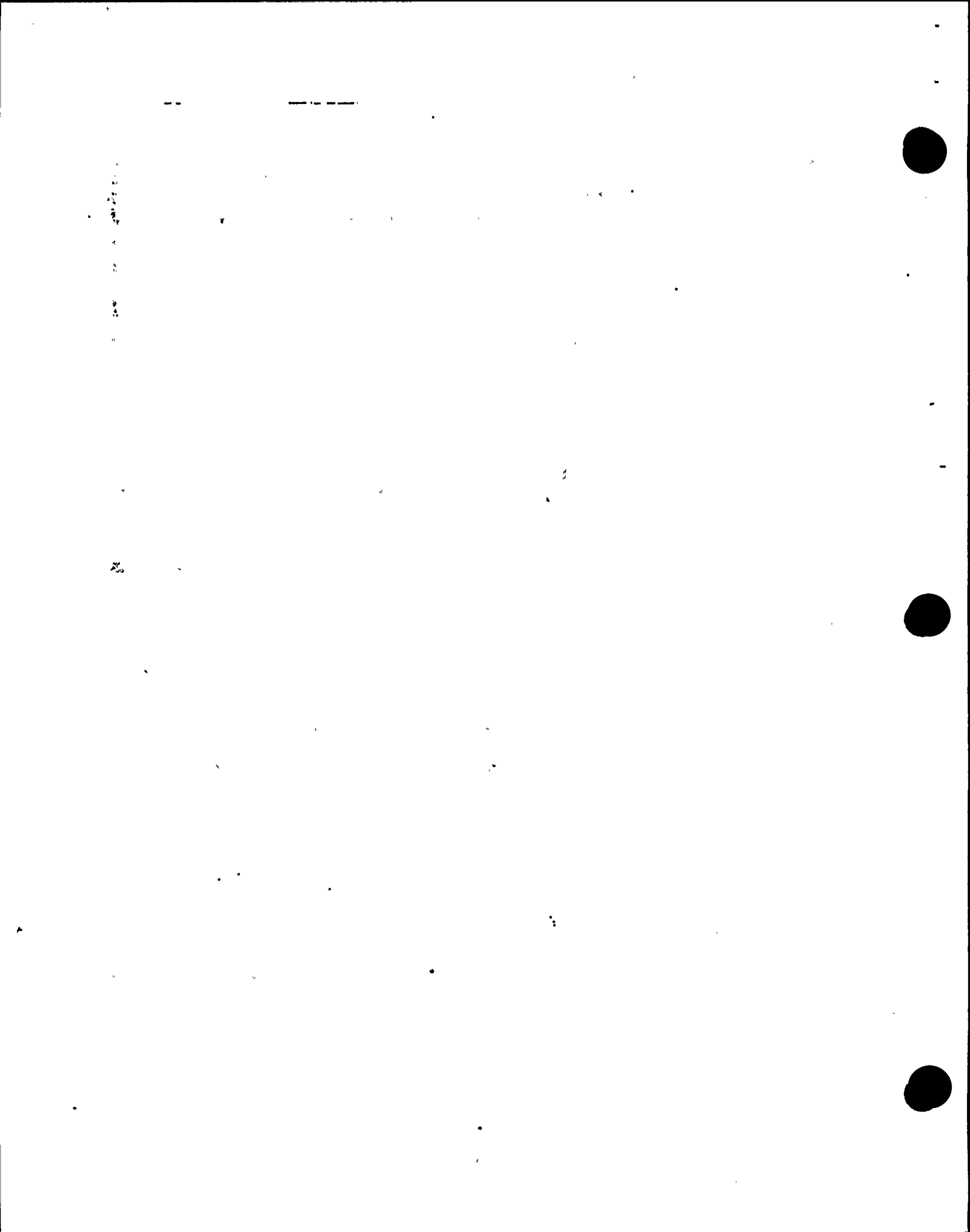


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1.0 PURPOSE

To describe the methods for processing, packaging and transporting low-level radioactive waste and provide assurance of complete stabilization of various radioactive wastes in accordance with applicable NRC & DOT regulations and guidelines.

2.0 RESPONSIBILITIES

2.1 The Plant Manager is responsible for:

2.1.1 Ensuring the Unit 1 Radwaste Process Control Program provides for the health and safety of the general public as it applies to Radwaste Management.

2.1.2 Reviewing and approving changes to the Unit 1 Radwaste Process Control Program in accordance with the applicable Technical Specification.

2.2 The Manager Operations is responsible for the content and maintenance of this program.

2.3 The General Supervisor Radwaste is responsible for overall implementation of the Radwaste Process Control Program.

3.0 PROGRAM

3.1 Radioactive Wastes

3.1.1 Waste Processing System

The General Supervisor Radwaste shall ensure:

- a. Radioactive waste is processed using approved equipment with approved procedures.
- b. Radioactive waste may be processed using approved vendor equipment and procedures. Vendors must have QA programs that meet NRC requirements.
- c. Radioactive wastes are disposed of in the applicable approved containers.
- d. Radioactive Waste is transferred into shipping casks in accordance with N1-LWPP-4, Waste Transfers to a Shipping Cask and N1-WHP-4, Cask Loading Procedure.

3.2 Solid Dry Radioactive Wastes (SDRW)

The General Supervisor Radwaste shall ensure:

- 3.2.1 Low Specific Activity (LSA) Solid Dry Radioactive Waste (SDRW) is collected and prepared in accordance with the applicable procedure, meeting 10CFR61, Sub Part D, Technical Requirements for Land Disposal Facilities and Final Waste Classification and Waste Form Technical Position Papers requirements.
- 3.2.2 SDRW is examined for liquids or items that could compromise the integrity of the package or violate the burial site license and/or criteria are removed or separated.
- 3.2.3 SDRW is shipped in containers meeting the transport requirements of 49CFR173.425, Transport Requirements for Low Specific Activity (LSA) Radioactive Materials.
- 3.2.4 Waste, precluded from disposal in LSA boxes or drums, due to radiation limits, is disposed of in the applicable containers.
- 3.2.5 Waste segregation and volume reduction processing techniques are used for waste generated during operation, maintenance, and modifications.
- 3.2.6 Scrap metal is separated from waste, when possible, for on-site or off-site decontamination.

NOTE: Vendor services may be used for waste segregation and further volume reduction processes.

3.3 Waste Classification/Characterization

- 3.3.1 The General Supervisor Radwaste shall ensure:
 - a. The minimum waste classification/characteristic requirements identified in 10CFR61.56, Waste Characteristics, are satisfied.
 - b. The radionuclide concentration determination methods and frequency are conducted properly.
- 3.3.2 The Manager Chemistry shall ensure the chemical and radionuclide content of waste is determined in accordance with the applicable chemistry procedures.
- 3.3.3 The Manager Radiation Protection shall ensure classification of waste is performed in accordance with applicable radiation protection procedures for the packaging and transportation of radioactive material.

3.4 Administrative Controls

3.4.1 The General Supervisor Radwaste is responsible for overall administrative control of the Radwaste Process Control Program, ensuring:

- a. Changes to the Unit 1 Radwaste Process Control Program are submitted to the NRC in the Semiannual Radioactive Effluent Release Report for the period in which the change(s) was made, and contain the information required by the applicable Technical Specification.
- b. Shipping manifests are completed and tracked to satisfy the requirements of 10CFR20.311, Transfer for Disposal and Manifests, in accordance with Waste Handling Procedures.
- c. Temporary storage of solid radioactive material awaiting shipment in an area other than a designated area is done in accordance with the applicable radioactive material storage area.

3.4.2 The Nuclear Division Quality Assurance Program assures effective implementation of the Process Control Program, as follows:

NOTE: The Manager, Nuclear QA, Operations has the authority to stop work when significant conditions adverse to quality exist and require corrective action.

- a. Under the cognizance of the Safety Review and Audit Board (SRAB), the Process Control Program and implementing procedures for processing and packaging of radioactive waste are audited at least once every 24 months as required by the applicable Unit 1 Technical Specification.
- b. Waste classifications and characterizations are reviewed/monitored to ensure compliance and requirements of 10CFR61.55, Waste Classification and 10CFR61.56, Waste Characteristics.
- c. Station management evaluates QA program audits of waste classification records to satisfy the requirements of 10CFR20.311.d.3, Transfer for Disposal and Manifests.
- d. Vendor programs are reviewed to ensure compliance with 10CFR71, Packaging and Transportation of Radioactive Materials, Quality Assurance requirements.
- e. QA Inspectors performing radwaste inspections receive documented training in Department of Transportation and NRC radwaste regulatory requirements.

3.4.3 The Nuclear Division Training Program assures personnel responsible for implementation of the Process Control Program are effectively trained in accordance with the applicable training procedures as follows:

- a. Initial qualification as a Radwaste Operator requires satisfactory completion of the Radwaste Operations Unit 1 Initial Training Program, which includes:
 1. Demonstrating an acceptable level of skill and familiarity associated with radwaste operations by achieving an average grade of 80 percent or above on written examinations.
 2. Receiving on-the-job training in accordance with applicable training procedures.
 3. Continued training conducted on a cyclical basis and includes a fundamental review of system modifications, revisions or changes to procedures, and changes or experiences in the nuclear industry.
 4. Individuals that demonstrate a significant deficiency in a given area of knowledge and/or proficiency (as identified during continued training) are placed in a remedial training program as directed by NTP-TQS-503.

3.4.4 Training records and waste management records are maintained in accordance with the applicable Quality Assurance procedures.

4.0 DEFINITIONS

4.1 The applicable Radwaste packaging, processing and transportation definitions will be used in accordance with 49CFR171.8 and 49CFR173.403.

5.0 REFERENCES

5.1 Licensee Documentation

5.1.1 Unit 1 Technical Specifications

- a. Section 3.6.16.c, Radioactive Effluent Treatment Systems
- b. Section 4.6.16.c, Radioactive Effluent Treatment Systems
- c. Section 6.5.2.11, Technical Review and Control

- 5.1.1 (Cont)
- d. Section 6.5.3.8.k, Audits of Facility Activities
 - e. Section 6.9.1.e, Semiannual Radioactive Effluent Release Report
- 5.1.2 Unit 1 Radiological Effluent Technical Specifications, Amendment No. 66.
- 5.1.3 Nine Mile Point Unit 1 Operating License No. DPR-63 (Docket No. 50-220)
- 5.1.4 QATR-1, Quality Assurance Program Topical Report for Nine Mile Point Nuclear Station Operations, Section 17.0, Quality Assurance Records.

5.2 Standards, Regulations, and Codes

- 5.2.1 10CFR20, Standards for Protection Against Radiation
- 5.2.2 10CFR61, Sub Part D, Technical Requirements for Land Disposal Facilities and Final Waste Classification and Waste Form Technical Position Papers
- 5.2.3 10CFR61.55, Waste Classification
- 5.2.4 10CFR61.56, Waste Characteristics
- 5.2.5 10CFR71, Packaging and Transportation of Radioactive Material, (Refer to applicable S-RPIPs for the packaging and transportation of radioactive material)
- 5.2.6 49CFR173, Shippers - General Requirements for Shipments and Packagings, (Refer to applicable S-RPIPs for the packaging and transportation of radioactive material)
- 5.2.7 49CFR173.425, Transport Requirements for Low Specific Activity (LSA) Radioactive Materials
- 5.2.8 NUREG-0133, Section 3.5, Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants
- 5.2.9 NUREG-0473, Sections 3.11.3 and 6.13, Draft Radiological Effluent Technical Specifications for Boiling Water Reactors
- 5.2.10 NUREG-0800, Section 11.4, Standard Review Plan for Solid Waste Management Systems

5.3 Policies, Programs, and Procedures

- 5.3.1 NDD-LPP, Licenses, Plans, and Programs

- 5.3.2 NDD-OPS, Operations
- 5.3.3 NDD-RMP, Radioactive Material Processing, Transport, and Disposal
- 5.3.4 NIP-ECA-01, Deviation/Event Report
- 5.3.5 NIP-PRO-03, Preparation and Review of Technical Procedures
- 5.3.6 NIP-RMG-01, Identification, Maintenance, Storage and Transfer of Nuclear Division Records
- 5.3.7 NIP-TQS-01, Qualification and Certification
- 5.3.8 GAP-ALA-01, Site ALARA Program
- 5.3.9 GAP-INV-02, Control of Material Storage Areas
- 5.3.10 GAP-OPS-01, Administration of Operations
- 5.3.11 GAP-RPP-01, Radiation Protection Program
- 5.3.12 GAP-RPP-02, Radiation Work Permit

5.4 Supplemental References

- 5.4.1 Chem Nuclear Systems, Inc. Training and Requalification Procedure
- 5.4.2 Chem Nuclear Systems, Inc. Topical Report, CNSI-2 (4313-01354-01PA)
- 5.4.3 Nuclear Regulatory Commission's Branch Technical Position on Waste Classification and Waste Form, May 1983

ATTACHMENT 1
UNIT 1 RADWASTE PROCESS CONTROL PROGRAM
IMPLEMENTING PROCEDURES
(Sheet 1 of 2)

Waste Handling Procedures (WHPs)

N1-WHP-01	Technical Information Governing Packaging and Shipping of Radioactive Waste
N1-WHP-02	Required Documents for Radioactive Waste Shipments
N1-WHP-03	Cask Handling Procedure
N1-WHP-04	Cask Loading Procedure
N1-WHP-06	Van Handling Procedure
N1-WHP-07	Van Loading Procedure
N1-WHP-08	Sludge Removal and Decontamination Procedure
N1-WHP-09	Cement Solidification Procedure
N1-WHP-10	Removal of a Loaded Cask Liner
N1-WHP-12	Solid Dry Radioactive Waste Collection and Processing
N1-WHP-13	RSSB SECO Crane

Liquid Waste Processing Procedures (LWPPs)

N1-LWPP-01	Liquid Waste Low Conductivity System
N1-LWPP-02	Liquid Waste High Conductivity System
N1-LWPP-03	Liquid Waste Discharge
N1-LWPP-04	Waste Transfers to a Shipping Cask
N1-LWPP-05	#12 Waste Concentrator System
N1-LWPP-06	Filter Sludge Processing System
N1-LWPP-07	Concentrated Waste Transfer System
N1-LWPP-08	Chemical Addition System
N1-LWPP-09	Fluidized Transfer Demineralization System (FTDS)
N1-LWPP-11	Liquid Waste #12 Electric Boiler System
N1-LWPP-12	Radwaste Building Heating and Ventilation System

ATTACHMENT 1
UNIT 1 RADWASTE PROCESS CONTROL PROGRAM
IMPLEMENTING PROCEDURES
(Sheet 2 of 2)

Liquid Waste Processing Procedures (LWPPs) (Cont)

N1-LWPP-13 RSSB Heating, Ventilation & Air Conditioning System

N1-LWPP-14 Sump and Tank Cleaning Procedure

Radiation Protection Procedures (S-RPIPs)

S-RPIP-7.1 Movement and Storage of Radioactive Material on Site

S-RPIP-7.2 Receipt of Radioactive Material

S-RPIP-7.3 Determination of Shipment Type

S-RPIP-7.4 Cask Shipments

S-RPIP-7.5 Van and Flatbed Shipments

S-RPIP-7.7 Non-Waste Radioactive Shipments

S-RPIP-7.8 Shipping Documents

Chemistry Procedure (CSP)

N1-CTP-V400 Radioactive Solid Waste Analysis and Documentation

N1-CTP-V402 Radioactive Solid Waste Composites

Quality Assurance Procedure (QAPs)

QAP-ASU-18.20 Quality Assurance Surveillance Program

QAP-INS-10.30 Nuclear Quality Assurance Department Inspection
Activities

QAP-ASU-18.10 Nuclear Audit Program

Training Procedures (NTPs)

NTP-TQS-201 Training for Chemistry Technicians, Radiation Protection
Technicians, and Radwaste Operators

ATTACHMENT 2 LICENSING DOCUMENT CHANGE REQUEST

NY NIAGARA MOHAWK	LICENSING DOCUMENT CHANGE REQUEST	LDCR No.	Rev
		11-93-PCP-00101	01

PART 1--INITIATION

Page 1 of 2

A. Affected Doc	OPL	UFB	Plans & Programs
<input checked="" type="checkbox"/> Unit 1 <input type="checkbox"/> Unit 2 <input type="checkbox"/> Site	<input type="checkbox"/> Facility Operating License <input type="checkbox"/> Technical Specifications <input type="checkbox"/> Environmental Prot Plan	<input type="checkbox"/> UFSAR <input type="checkbox"/> QA Topical Report <input type="checkbox"/> Fire Prot QA Program	<input type="checkbox"/> Site Emergency Plan (SEP) <input type="checkbox"/> Phys Sec Plan, GCP & T&OP (SPS) <input checked="" type="checkbox"/> Process Control Program (PCP) <input type="checkbox"/> Offsite Dose Calc Manual (ODM)
			<input type="checkbox"/> ISI Program Plan (ISI) <input type="checkbox"/> IST Program Plan (IST) <input type="checkbox"/> CORE Operating Limits Rept (COL)

B. Description Permanent Temporary, Expected Duration: _____

REMOVED SPECIFIC REFERENCES TO VENDOR EQUIPMENT AND DOCUMENTS. CHANGED DISCRPTION OF WASTES AND TYPE OF PROCESSING TO ACCURATELY REFLECT ALL WASTES AND PROCESSING METHODS. UPDATED TO INCORPORATE CURRENT REFERENCES.

C. Page	Section, Figure, Table	Page	Section, Figure, Table
ALL	1.0 3.4.4 3.1 4.1 3.1.1 5.1 3.3.2 5.3 3.4.3 ATTACHMENT 1	ALL	2.1.2 3.2.4 3.3.3 3.4.1 3.4.2

D. Source of Change / References

SE 93-026 R/R-500 II

E. NIP-SEV-01 Review <input checked="" type="checkbox"/> Preliminary Evaluation/Safety Review Attached <input type="checkbox"/> Safety Evaluation No.:	F. Originator (Print) JACK TORBIT JR.	Date 11-3-93
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PART 2--REVIEW / APPROVAL

A. SME (Print/Initial) <input type="checkbox"/> N/A JACK TORBIT JR. JT	Date 11-3-93	B. Recp Org Branch Manager (Print/Initial) MICHAEL A. BALBUZZI FOR NRC MAB	Date 11/5/93
C. Effectiveness Review <input type="checkbox"/> NR <input checked="" type="checkbox"/> Attached	D. SORC <input type="checkbox"/> NR Mtg No: 93-079	E. GRAB <input type="checkbox"/> NR Mtg No: _____	Mtg Date 11/5/93
F. Plant Mgr <input type="checkbox"/> NR <input checked="" type="checkbox"/> Obtained per Doc Coversheet	<input type="checkbox"/> Obtained per NIP-IRG-01 <input type="checkbox"/> Obtained per NIP-SEV-01	G. NRC (NIP-IRG-01 Submittal Required) <input checked="" type="checkbox"/> NR <input type="checkbox"/> Letter No./Date: _____	NRC App'd Date: _____

PART 3--IMPLEMENTATION

PART 4--CLOSURE

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C. Closed by (Print/Initial): DENNIS JONES / DJ		Date: 2/14/94

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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION

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UNIT 1 RADWASTE PROCESS CONTROL PROGRAM

REVISION 00

FOR INFORMATION ONLY

Approved By:
K. A. Dahlberg

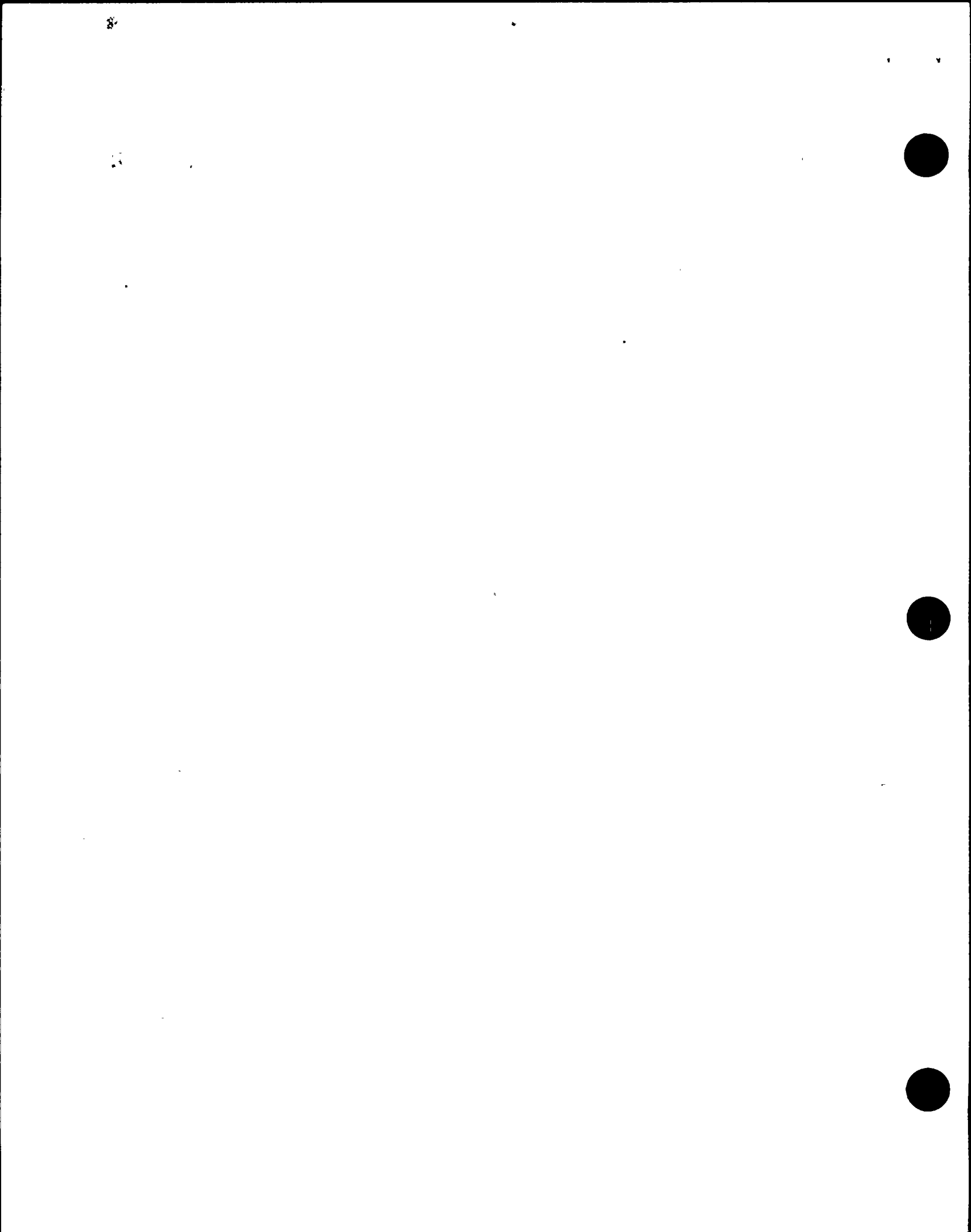
K.A. Dahlberg
Plant Manager - Unit 1

12/18/92
Date

Effective Date: 12/30/92

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1.0 PURPOSE

To describe the methods for processing, packaging and transporting low-level radioactive waste and provide assurance of complete stabilization of various radioactive "wet wastes" in accordance with applicable NRC regulations and guidelines.

2.0 RESPONSIBILITIES

2.1 The Plant Manager is responsible for:

- 2.1.1 Ensuring the Unit 1 Radwaste Process Control Program provides for the health and safety of the general public as it applies to Radwaste Management.
- 2.1.2 Reviewing and approving changes to the Unit 1 Radwaste Process Control Program in accordance with Unit 1 Technical Specification, Section 6.5.2.11, Review and Audit, Technical Review and Control Activities.

2.2 The Manager Operations is responsible for the content and maintenance of this program.

2.3 The General Supervisor Radwaste is responsible for overall implementation of the Radwaste Process Control Program.

3.0 PROGRAM

3.1 Wet Radioactive Wastes

3.1.1 Waste Processing System

The General Supervisor Radwaste shall ensure:

- a. Wet radioactive waste is solidified using the Chem Nuclear Systems, Inc. (CNSI) portable solidification unit (PSU-C-26) in accordance with NI-WHP-9, Cement Solidification Procedure, which implements the following CNSI procedures:
 - SD-OP-041, Operating Procedure for CNSI Portable Cement Solidification Unit #26 (PSU-C-26)
 - SD-OP-003, Process Control Program for Solidification of Stable Waste Forms
 - SD-OP-048, Process Control Program and Operating Procedure for In-Situ Solidification of Suspended Objects

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3.1.1 (Cont)

- SD-OP-097, Process Control Program for Cement Solidification of Unstable Waste
 - SD-OP-098, Waste Solidification in Chem-Nuclear Systems, Inc. Polyethylene High Integrity Container
- b. Dewatered spent bead resins, activated carbon, and dewatered filter sludge are disposed of in high integrity containers.
- c. Radioactive waste is transferred into shipping casks in accordance with N1-LWPP-4, Waste Transfers to a Shipping Cask and N1-WHP-4, Cask Loading Procedure which implements the following CNSI procedures:
- FO-OP-022, Ecodex Precoat, Powdex, Diatomaceous Earth, Solka-Floc Dewatering Procedure
 - FO-OP-023, Bead Resin, Activated Carbon Dewatering Procedure

3.2 Solid Dry Radioactive Wastes (SDRW)

The General Supervisor Radwaste shall ensure:

- 3.2.1 Low Specific Activity (LSA) Solid Dry Radioactive Waste (SDRW) is collected and prepared in accordance with N1-WHP-12, Solid Dry Radioactive Waste Collection and Processing, meeting 10CFR61, Sub Part D, Technical Requirements for Land Disposal Facilities and Final Waste Classification and Waste Form Technical Position Papers requirements.
- 3.2.2 SDRW is examined for liquids or items that could compromise the integrity of the package or violate the burial site license and/or criteria are removed or separated.
- 3.2.3 SDRW is shipped in containers meeting the transport requirements of 49CFR173.425, Transport Requirements for Low Specific Activity (LSA) Radioactive Materials.
- 3.2.4 Waste precluded from disposal in LSA boxes or drums, due to radiation limits, is disposed of in liners in accordance with N1-LWPP-4, Waste Transfers to a Shipping Cask and N1-WHP-4, Cask Loading Procedure.
- 3.2.5 Waste segregation and volume reduction processing techniques are used for waste generated during operation, maintenance, and modifications.

- 3.2.6 Scrap metal is separated from waste, when possible, for on-site or off-site decontamination.

NOTE: Vendor services may be used for waste segregation and further volume reduction processes.

3.3 Waste Classification/Characterization

- 3.3.1 The General Supervisor Radwaste shall ensure:

- a. The minimum waste classification/characteristic requirements identified in 10CFR61.56, Waste Characteristics, are satisfied.
- b. The radionuclide concentration determination methods and frequency are conducted properly.

- 3.3.2 The Manager Chemistry shall ensure the chemical and radionuclide content of each sample is determined in accordance with N1-CSP-14V, Collection and Analysis of Waste Samples.

- 3.3.3 The Manager Radiation Protection shall ensure classification of waste is performed in accordance with applicable S-RPIPs for the packaging and transportation of radioactive material.

3.4 Administrative Controls

- 3.4.1 The General Supervisor Radwaste is responsible for overall administrative control of the Radwaste Process Control Program, ensuring:

- a. Changes to the Unit 1 Radwaste Process Control Program are submitted to the NRC in the Semiannual Radioactive Effluent Release Report for the period in which the change(s) was made, and contain the information required by Technical Specification 6.9.1, Routine Reports. *
- b. Shipping manifests are completed and tracked to satisfy the requirements of 10CFR20.311, Transfer for Disposal and Manifests, in accordance with Waste Handling Procedures.
- c. The status of each shipping manifest is monitored by Radwaste Management in accordance with N1-WHP-02, Paperwork for a Radioactive Waste Shipment.
- d. Temporary storage of solid radioactive material awaiting shipment in an area other than a designated area is done in accordance with GAP-INV-02, Control of Material Storage Areas.

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3.4.2 The Nuclear Division Quality Assurance Program assures effective implementation of the Process Control Program, as follows:

NOTE: The Manager, Nuclear QA, Operations has the authority to stop work when significant conditions adverse to quality exist and require corrective action.

- a. Under the cognizance of the Safety Review and Audit Board (SRAB), the Process Control Program and implementing procedures for processing and packaging of radioactive waste are audited at least once every 24 months as required by Unit 1 Technical Specification 6.5.3.8.k, Audits, Safety Review and Audit Board.
- b. Waste classifications and characterizations are reviewed/monitored to ensure compliance with requirements of 10CFR61.55, Waste Classification and 10CFR61.56, Waste Characteristics.
- c. Station management evaluates QA program audits of waste classification records to satisfy the requirements of 10CFR20.311.d.3, Transfer for Disposal and Manifests.
- d. Vendor programs are reviewed to ensure compliance with 10CFR71, Packaging and Transportation of Radioactive Materials, Quality Assurance requirements.
- e. QA Inspectors performing radwaste inspections receive documented training in Department of Transportation and NRC radwaste regulatory requirements.

3.4.3 The Nuclear Division Training Program assures personnel responsible for implementation of the Process Control Program are effectively trained, as follows:

- a. Initial qualification as a Radwaste Operator requires satisfactory completion of the Radwaste Operations Unit 1 Plant Training Program, which includes:
 1. Receiving on-the-job training in conjunction with classroom instruction to develop an acceptable level of skill and familiarity with radwaste components, controls, operational procedures, and related systems.
 2. Demonstrating an acceptable level of skill and familiarity associated with radwaste operations by achieving an average grade of 80 percent or above on written examinations.

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3.4.3 (Cont)

- b. Radwaste Operators receive periodic training in accordance with NTP-13, Training and Continued Training of Radwaste Operators, as follows:
 1. Continued (requalification) training is conducted on an annual basis and includes a fundamental review of system modifications, revisions or changes to procedures, and changes or experiences in the nuclear industry.
 2. Individuals that demonstrate a significant deficiency in a given area of knowledge and/or proficiency (as identified during continued training) are placed in a remedial training program as directed by the General Supervisor Radwaste.
- c. Chemistry Technicians, Radiation Protection Technicians and Radwaste Operators receive training in accordance with NTP-TQS-201, Training for Chemistry Technicians, Radiation Protection Technicians, and Radwaste Operators.

3.4.4 Training records and waste management records are maintained in accordance with applicable requirements of QATR-1, Quality Assurance Program Topical Report for Nine Mile Point Nuclear Station Operations, Section 17.0, Quality Assurance Records, NIP-TQS-01, Qualification and Certification, and NIP-RMG-01, Identification, Maintenance, Storage and Transfer of Nuclear Division Records.

4.0 DEFINITIONS

4.1 Class "A" Waste

Waste usually segregated from other waste classes at the disposal site. The physical form and characteristics shall meet the minimum requirements of 10CFR61.56, Waste Characteristics.

4.2 Class "B" Waste

Waste meeting more rigorous waste form requirements to ensure stability after disposal. Class B waste form shall meet both the minimum and stability requirements of 10CFR61.56, Waste Characteristics.

4.3 Class "C" Waste

Waste meeting Class B standards and requiring additional measures at the disposal facility to prevent inadvertent intrusion.

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5.0 REFERENCES

5.1 Licensee Documentation

5.1.1 Unit 1 Technical Specifications

- a. Section 3/4.6.16.c, Radioactive Effluent Treatment Systems
- b. Section 6.5.2.11, Technical Review and Control
- c. Section 6.5.3.8.k, Audits of Facility Activities
- d. Section 6.9.1.e, Semiannual Radioactive Effluent Release Report

5.1.2 Unit 1 Radiological Effluent Technical Specifications, Amendment No. 66

5.1.3 Nine Mile Point Unit 1 Operating License No. DPR-63 (Docket No. 50-220)

5.1.4 QATR-1, Quality Assurance Program Topical Report for Nine Mile Point Nuclear Station Operations, Section 17.0, Quality Assurance Records

5.2 Standards, Regulations, and Codes

5.2.1 10CFR20, Standards for Protection Against Radiation

5.2.2 10CFR61, Sub Part D, Technical Requirements for Land Disposal Facilities and Final Waste Classification and Waste Form Technical Position Papers

5.2.3 10CFR61.55, Waste Classification

5.2.4 10CFR61.56, Waste Characteristics

5.2.5 10CFR71, Packaging and Transportation of Radioactive Material, (Refer to applicable S-RPIPs for the packaging and transportation of radioactive material)

5.2.6 49CFR173, Shippers - General Requirements for Shipments and Packagings, (Refer to applicable S-RPIPs for the packaging and transportation of radioactive material)

5.2.7 49CFR173.425, Transport Requirements for Low Specific Activity (LSA) Radioactive Materials

5.2.8 NUREG-0133, Section 3.5, Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants

5.2.9 NUREG-0473, Sections 3.11.3 and 6.13, Draft Radiological Effluent Technical Specifications for Boiling Water Reactors

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5.2.10 NUREG-0800, Section 11.4, Standard Review Plan for Solid Waste Management Systems

5.3 Policies, Programs, and Procedures

5.3.1 NDD-LPP, Licenses, Plans, and Programs

5.3.2 NDD-OPS, Operations

5.3.3 NDD-RMP, Radioactive Material Processing, Transport, and Disposal

5.3.4 NIP-ECA-01, Nuclear Division Interfacing Procedure - Deviation/Event Report

5.3.5 NIP-PRO-03, Preparation and Review of Technical Procedures

5.3.6 NIP-RMG-01, Identification, Maintenance, Storage and Transfer of Nuclear Division Records

5.3.7 NIP-TQS-01, Qualification and Certification

5.3.8 AP-3.3, Radiation Protection Program

5.3.9 AP-3.3.2, Radiation Work Permit

5.3.10 AP-3.3.3, Radiation Worker Conduct

5.3.11 GAP-ALA-01, Site ALARA Program

5.3.12 GAP-INV-02, Control of Material Storage Areas

5.3.13 GAP-OPS-01, Administration of Operations

5.4 Supplemental References

5.4.1 Chem Nuclear Systems, Inc. Training and Requalification Procedure

5.4.2 Chem Nuclear Systems, Inc. Topical Report, CNSI-2 (4313-01354-01PA)

5.4.3 Nuclear Regulatory Commission's Branch Technical Position on Waste Classification and Waste Form, May 1983

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ATTACHMENT 1
UNIT 1 RADWASTE PROCESS CONTROL PROGRAM
IMPLEMENTING PROCEDURES
(Sheet 1 of 2)

Waste Handling Procedures (WHPs)

- NI-WHP-01 Required Documentation Concerning Packaging and Shipping of Radioactive Wastes
- NI-WHP-02 Paperwork for Radioactive Waste Shipment
- NI-WHP-03 Cask Handling Procedure
- NI-WHP-04 Cask Loading Procedure
- NI-WHP-05 Onsite Drum Handling
- NI-WHP-06 Van Handling Procedure
- NI-WHP-07 Van Loading Procedure
- NI-WHP-08 Sludge Removal and Decontamination Procedure
- NI-WHP-09 Cement Solidification Procedure
- NI-WHP-10 Removal of a Loaded Cask Liner
- NI-WHP-12 Solid Dry Radioactive Waste Collection and Processing
- NI-WHP-13 RSSB SECO Crane

Liquid Waste Processing Procedures (LWPPs)

- NI-LWPP-1 Liquid Waste Low Conductivity System
- NI-LWPP-02 Liquid Waste High Conductivity System
- NI-LWPP-03 Liquid Waste Discharge
- NI-LWPP-4 Waste Transfers to a Shipping Cask
- NI-LWPP-5 #12 Waste Concentrator System
- NI-LWPP-6 Filter Sludge Processing System
- NI-LWPP-7 Concentrated Waste Transfer System
- NI-LWPP-8 Chemical Addition System
- NI-LWPP-9 Fluidized Transfer Demineralization System (FTDS)
- NI-LWPP-11 Liquid Waste #12 Electric Boiler System
- NI-LWPP-12 Radwaste Building Heating and Ventilation System
- NI-LWPP-13 RSSB Heating, Ventilation & Air Conditioning System
- NI-LWPP-14 Sump Cleaning Procedure



ATTACHMENT 1
UNIT 1 RADWASTE PROCESS CONTROL PROGRAM
IMPLEMENTING PROCEDURES
(Sheet 2 of 2)

Radiation Protection Procedures (S-RPIPs)

- S-RPIP-7.1 Movement and Storage of Radioactive Material on Site
- S-RPIP-7.2 Receipt of Radioactive Material
- S-RPIP-7.3 Determination of Shipment Type
- S-RPIP-7.4 Cask Shipments
- S-RPIP-7.5 Van and Flatbed Shipments
- S-RPIP-7.6 Activated Materials Shipments
- S-RPIP-7.7 Non-Waste Radioactive Shipments
- S-RPIP-7.8 Shipping Documents

Chemistry Procedure (CSP)

- NI-CSP-V400 Radioactive Solid Waste Analysis and Documentation

Quality Assurance Procedures (QAPs)

- QAP-10.03 Quality Assurance Department Surveillance Activity
- QAP-10.30 Quality Assurance Department Inspection Activities
- QAP-18.10 Quality Assurance Department Nuclear Audit Program

Training Procedures (NTPs)

- NTP-13 Training and Continued Training of Radwaste Operators
- NTP-TQS-201 Training for Chemistry Technicians, Radiation Protection Technicians, and Radwaste Operators

