

# DUKE POWER COMPANY CLEAR PRODUCTION DEPARTMENT

## PROCESS CONTROL PROGRAM



VOL 1

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This is a Process Control Program Manual. This manual includes two types of documents - 1) the actual Process Control Program for each nuclear station and, 2) supporting documents and forms which are not part of the PCP proper.

The actual Process Control Program as required by Technical Specification consists solely and exclusively of manual sections:

- I. Introduction
- II. Corporate PCP, and
- III, IV, or V. Station PCP

Revisions to these sections shall be governed by Section 6 of the applicable station's Technical Specifications.

Manual Sections VI through IX consist of documents and forms used in Nuclear Production technical review of proposed revisions to the PCP or its implementing procedures. These documents are not part of the Process Control Program, are not required by Technical Specification, and revisions are not governed by Section 6.0

with held.

DUKE POWER COMPANY  
PROCESS CONTROL PROGRAM  
MANUAL

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*with hold*

DUKE POWER COMPANY  
PROCESS CONTROL PROGRAM

INTRODUCTION AND BACKGROUND

Technical Specifications 3/4.11.3 for McGuire and Catawba Nuclear Stations and 3.11 for Oconee Nuclear Station define the operation of the Solid Radioactive Waste System (WS). This specification requires that the WS System be operated in accordance with a "Process Control Program", such that the final product of solidification or dewatering meet all shipping and transportation requirements during transit and meet disposal site requirements when received at the disposal site. These "Process Control Program" requirements are applicable to liquid or wet solid wastes only.

While Technical Specifications require a "Process Control Program", they do not provide sufficient guidance on the totality of the requirements that must be addressed in an acceptable program. These requirements can be found in several documents developed by the NRC to provide guidance on a "Process Control Program". These documents include:

1. NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants"
2. NUREG-0452, "Standard Technical Specifications for Westinghouse PWR's"
3. NUREG-0800, "Standard Review Plan for Solid Waste Management Systems"
4. Branch Technical Position - ETSB 11-3, "Design Guidance of Solid Radioactive Management Systems"
5. Appendix 11.4-A, "Design Guidance for Temporary Onsite Storage of Low Level Radioactive Waste"
6. NRC Review Criteria for Solid Waste Management Systems
7. Site-specific Technical Specifications.

These documents, except for site Technical Specifications, can be found in Section VI of this manual.

A listing of the requirements specified or referenced by each document can be found in Section VII. These requirements can be generally summarized as follows:

1. A PCP shall be used to control all solidification and dewatering activities.
2. A PCP shall assure compliance with applicable federal regulations: 10CFR Parts 20, 50, 61, and 71 and 49 CFR (173-179).
3. A PCP shall be approved by the NRC prior to implementation.



4. Changes to the PCP shall be submitted to the NRC in the Semiannual Radioactive Effluent Report.
5. A PCP shall consist of the processing steps and processing parameters that must be followed to assure satisfactory solidification and/or dewatering products.
6. A PCP shall establish a sampling or testing schedule for verification of solidification.
7. A PCP shall establish a set of records that must be maintained for each solidification and dewatering performed for disposal.
8. A PCP shall specifically address methods for radioactive waste oil disposal.
9. A PCP shall address chemical compatibility of waste and disposal container during interim storage.
10. A PCP shall be implemented in station operating procedures.
11. A PCP shall establish a system of technical and management review and approval for all changes to itself or its implementing procedures.
12. A PCP shall establish a system of performance audits for itself and its implementing procedures.

This manual outlines Duke Power Company's program for complying with the NRC requirements for a Process Control Program for the Oconee, McGuire and Catawba Nuclear Stations. The Corporate Process Control Program is the list of the specific requirements that must be met to assure a final solidification or dewatering product meets all federal and state regulations. The Station Process Control Program is a list of the operating procedures that implement the requirements of the Corporate PCP and a station specific drawing reference for system interfaces.

As the Nuclear Regulatory Commission further defines their requirements for a PCP and as federal or state regulations change, this manual will be revised to meet these changes.

## SOLIDIFICATION

### General System Description

Solidification is accomplished at all Duke Power Nuclear Stations by mixing measured amounts of waste, binder, and required additives and allowing sufficient cure time to insure a solid free-standing monolith.

A measured amount of waste is transferred from company-owned and controlled containers (e.g., waste storage tanks, tankers, drums) through company- or vendor-supplied isolation valves to the solidification vessel.

Measured amounts of binding agent and additives (as required) are transferred from storage containers through transfer lines to the solidification vessel.

The waste and binder are mixed using company- or vendor-supplied equipment and allowed to cure for a predetermined time. At the end of the curing period, the absence of free liquids is verified either by confirmation that the PCP was followed or by physical testing.

The solidification system ventilation discharge is routed through company- or vendor-supplied piping to the plant's Auxiliary Building or Radwaste Facility ventilation system prior to discharge to the environment. If the solidification system has filtered ventilation, exhaust need not be routed back to building ventilation.

Any decanted liquids (e.g., excess sluice liquid) are routed back to plant storage tanks through company- or vendor-supplied piping.

Solidification equipment and processing may be provided by vendor, by permanent Duke Power systems, or by portable Duke Power systems. Any process used shall be verified by station and corporate Radwaste staffs as meeting all requirements outlined in the Corporate PCP. Verification and approval by station and corporate Radwaste supervision are required prior to placing any system in service for the purpose of producing solidified waste for disposal as radioactive waste.

## DEWATERING

### General System Description

Dewatering is accomplished by removing all free liquids from "wet solids" such that the final product meets all regulatory and burial site criteria for disposal (i.e., less than 0.5% free standing liquid by waste volume per container or less than 1% free standing liquid if a high integrity container is utilized).

All wastes to be dewatered are degassed prior to the dewatering process. Therefore special ventilation requirements are not necessary.

#### Liner Dewatering:

Vendor- or company-supplied liners are used to dewater large volumes of wet solids, usually resin slurries. The wet solids are transferred from company owned and controlled storage containers (e.g., tanks, temporary liners) through company- or vendor-supplied isolation valves to the disposal liner. All free liquid is pumped out of the liner and returned to the company storage containers using company or vendor pumps and piping.

#### Demineralizer Dewatering:

Vendor-supplied portable demineralizers are dewatered by using company or vendor pumps to remove all free liquids from the vessel. The dewatering liquid is returned to company storage containers for sampling prior to reuse or processing.

#### Filter Dewatering:

Filters are dewatered by draining and drip drying prior to shipment. Packing material may be placed within the vessel to maintain position of contents during shipment. Filters may also be dewatered in liners.

Filter Slurry Dewatering:

Filter backwash slurry may be dewatered similar to resin liner dewatering or solidified.

DUKE POWER COMPANY  
CORPORATE  
PROCESS CONTROL PROGRAM

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DUKE POWER COMPANY  
CORPORATE  
PROCESS CONTROL PROGRAM

1.0 PURPOSE

- 1.1 The purpose of the Duke Power Company Corporate Process Control Program is to establish a set of requirements that shall be met at all nuclear stations to insure that all solidification and dewatering activities are conducted in a manner and produce a final product that complies with all applicable Federal and State regulations and licensed burial site criteria.
- 1.2 The Duke Power Company Process Control Program shall be used to control and direct all solidification and dewatering activities for liquids (e.g., evaporator concentrates) and "wet solids" (e.g., resin slurries, filter backwash slurries, cartridge filters) at the Oconee Nuclear Station, Units 1, 2 and 3, the McGuire Nuclear Station, Units 1 and 2, and the Catawba Nuclear Station, Units 1 and 2.
- 1.3 Station - specific procedures shall be developed to implement the requirements of this corporate PCP.
- 1.4 This Process Control Program and implementing procedures shall assure that all solidification and dewatering activities are in compliance with 10CFR20, 50, 61, 71, 49 CFR and licensed burial site criteria.
- 1.5 If this Process Control Program is not followed, each vessel of processed (i.e., solidified or dewatered) waste shall be physically tested to verify the absence of free standing liquids.

2.0 SOLIDIFICATION

2.1 Vendor Requirements

- 2.1.1 Any vendor solidification services utilized by Duke Power Company shall have a NRC approved Topical Report.
- 2.1.2 Any vendor solidification services utilized by Duke Power Company shall be approved by the Corporate Radwaste Engineer and station(s) Technical Services Superintendent prior to operation.
  - 2.1.2.1 Technical review shall be performed by corporate and station radwaste staffs of all vendor documents and procedures to insure they meet the requirements of the Duke Power Company PCP outlined below.
- 2.1.3 Chem-Nuclear Systems Inc. has been reviewed and approved to provide solidification services to the Oconee, McGuire, and Catawba Nuclear Stations as described in: Mobile Cement Solidification System, Topical Report CNSI-2(4313-01354-0IP-A). Approved waste forms for

solidification are: boric acid evaporator concentrates, spent bead resin, spent powdered resin, filters, filter backwash slurry, and resin regenerative chemical wastes.

## 2.2 Program Requirements

- 2.2.1 The vendor topical report shall include a detailed system description giving all vendor interfaces with company equipment. Drawings or diagrams shall be included detailing all solidification system interfaces with plant radwaste systems and equipment.
- 2.2.2 The vendor topical report shall include a statement that the design, construction, operation and quality assurance provisions are in accordance with NRC ETSB Branch Technical Position 11-3 and Regulatory Guide 1.143.
- 2.2.3 Duke Power Company permanent or portable solidification systems shall have a detailed system description giving all solidification equipment interfaces with other company equipment. Drawings or diagrams shall be included detailing all solidification system interfaces with other plant radwaste equipment and systems.

NOTE: This information may be included as part of a Topical Report furnished by the equipment manufacturer or supplier or as part of the plant specific Final Safety Analysis Report.

- 2.2.4 Duke Power Company permanent or portable solidification systems shall be designed, constructed, operated per and meet all quality assurance provisions of NRC ETSB Branch Technical Position 11-3 and Regulatory Guide 1.143.
- 2.2.5 Station procedures shall be established to assure the following requirements are met:
  - 2.2.5.1 A representative sample shall be taken from at least every tenth batch of each waste type to verify solidification.
  - 2.2.5.2 If the initial sample fails to verify solidification, a representative sample shall be taken from each consecutive batch of the same type waste until three consecutive samples demonstrate solidification.
  - 2.2.5.3 A representative sample shall meet all the following conditions:
    - 2.2.5.3.1 The contents of the container to be sampled shall be recirculated a minimum of three volume turnovers or adequately mixed to achieve a homogeneous mixture.

NOTE: Adequately mixed shall be defined as: mixing via agitative or recirculative flow which exceeds a specified minimum rate which has been documented to provide a representative sample for the vessel.

- 2.2.5.3.2 For final samples prior to initiating solidification, no additional waste shall be introduced into the container after recirculation or mixing has begun. Vessel level readings or input isolation shall be documented at the time of mixing initiation, and process initiation.
- 2.2.5.3.3 Recirculation or mixing time and/or volume must be uninterrupted from initiation until completion of sample collection.
- 2.2.5.4 During the recirculation and sampling period, the vessel shall not be placed in a transfer mode.
- 2.2.5.5 Sample analysis shall be performed as outlined in site-specific procedures for each waste form and solidification media. These should include such analysis as:
  - 2.2.5.5.1 Waste pH
  - 2.2.5.5.2 Waste density
  - 2.2.5.5.3 Waste boron concentration
  - 2.2.5.5.4 Waste oil content
- 2.2.5.6 Test solidification shall be performed to establish boundary conditions for all process parameters.
  - NOTE: "Process parameters" shall be defined as, "those conditions critical to insure complete solidification".
  - NOTE: "Boundary conditions" shall be defined as, "acceptable numerical values for process parameters as established by a test solidification".
- 2.2.5.7 Process parameters should include any of the following which are required to assure solidification:
  - 2.2.5.7.1 Waste form.
  - 2.2.5.7.2 Waste to solidification agent ratio.
  - 2.2.5.7.3 Amount of each solidification additive.
  - 2.2.5.7.4 Waste pH.
  - 2.2.5.7.5 Waste boron concentration.
  - 2.2.5.7.6 Waste density.
  - 2.2.5.7.7 Waste oil content.



- 2.2.5.7.8 Mixer speed.
- 2.2.5.7.9 Mixing time.
- 2.2.5.7.10 Curing time.
- 2.2.5.7.11 Specific activity.
- 2.2.5.8 Vendor shall submit sample analysis, test solidification results and prescribed boundary conditions to Station Radwaste Supervision.
- 2.2.5.9 Station Radwaste Supervision shall review the data outlined in Step 2.2.5.8 and shall authorize solidification prior to initiation.
  - 2.2.5.9.1 Difficulties and/or disagreements between vendor and station personnel should be resolved through direct interaction between vendor and station. Corporate Radwaste Engineering staff should be contacted if resolution can not be reached at the station level.
- 2.2.5.10 Solidification for disposal shall not be performed unless the test solidification is acceptable.
- 2.2.5.11 All system operation shall be controlled by station procedures to assure that the solidification system is operated within the boundary conditions established in Step 2.2.5.7.
  - 2.2.5.11.1 Vendor procedures shall be incorporated as attachments to station procedures. Vendor format may be retained as a DPC enclosure if desired or the procedure may be rewritten into DPC format.
- 2.2.5.12 The absence of free liquids shall be verified for each vessel of solidified waste prior to disposal. Verification shall be performed by either confirmation that the Process Control Program was followed or by physical testing.
  - 2.2.5.12.1 Physical testing shall be required for each vessel if the Process Control Program was not followed or if any off-normal condition existed during processing.
    - 2.2.5.12.1.1 Physical testing shall consist of visual inspection and probe penetrate tests.
  - 2.2.5.12.2 A vessel shall have less than 0.5% free standing liquid by waste volume.
  - 2.2.5.12.3 If a High Integrity Container is utilized, the vessel shall have less than 1% free standing liquid.
- 2.2.5.13 Any solidification vessel that does not pass the tests specified in Step 2.2.5.12 shall not be shipped to a burial



site until reprocessing or repackaging has resulted in an acceptable product.

2.2.5.14 Records shall be maintained by Duke Power Company on each vessel of solidified wastes. These records shall be maintained for six (6) years (per the Administrative Policy Manual).

2.2.5.14.1 These records shall include:

2.2.5.14.1.1 Representative sampling documentation (per Step 2.2.5.3).

2.2.5.14.1.2 Sample analysis results (per Step 2.2.5.5).

2.2.5.14.1.3 Reference test solidification results and boundary conditions (per Steps 2.2.5.6 and 2.2.5.7)

2.2.5.14.1.4 Station Radwaste Supervision authorization for solidification per (Step 2.2.5.9).

2.2.5.14.1.5 System operation data to insure all boundary conditions were met (per Step 2.2.5.11).

2.2.5.14.1.6 FSL Verification (per Step 2.2.5.12).

### 3.0 DEWATERING

#### 3.1 Vendor Requirements

3.1.1 Any vendor utilized by Duke Power Company to provide dewatering services shall have a Topical Report that is either under NRC review or has NRC approval.

3.1.2 Any vendor dewatering services utilized by Duke Power Company shall be approved by the Corporate Radwaste Engineer and station(s) Technical Services Superintendent prior to operation.

3.1.2.1 Technical review shall be performed by corporate and station radwaste staffs of all vendor documents and procedures to insure they meet all requirements of the Duke Power Company PCP outlined below.

3.1.3 Chem-Nuclear Systems Inc. has been reviewed and approved to provide dewatering services to Oconee, McGuire, and Catawba Nuclear Stations as described in Topical Report CNSI-DW-11118-01.

#### 3.2 Program Requirements

3.2.1 The vendor topical report shall include a detailed system description giving all vendor interfaces with company equipment. Drawings

or diagrams shall be included detailing all dewatering system interfaces with plant radwaste systems and equipment.

- 3.2.2 The vendor topical report shall include a statement that the design, construction, operation and quality assurance provisions are in accordance with Regulatory Guide 1.143.
- 3.2.3 All vendor supplied portable demineralizers shall be covered by a topical report that meets all requirements of Steps 3.2.1 and 3.2.2.
- 3.2.4 Duke Power Company permanent or portable dewatering systems shall have a detailed system description giving all dewatering equipment interfaces with other company equipment. Drawings or diagrams shall be included detailing all dewatering system interfaces with other plant radwaste equipment and systems.

NOTE: This information may be included as part of a Topical Report furnished by the equipment manufacturer or supplier or as part of the plant specific Final Safety Analysis Report.

- 3.2.5 Duke Power Company permanent or portable dewatering systems shall be designed, constructed, operated per and meet all quality assurance provisions of NRC Branch Technical Position 11-3 and Regulatory Guide 1.143.
- 3.2.6 Station procedures shall be established to assure the following requirements are met:

- 3.2.6.1 Boundary conditions shall be established for all process parameters.

NOTE: Process parameters shall be defined as, "those conditions critical to insure complete dewatering".

NOTE: "Boundary conditions" shall be defined as, "acceptable numerical values for process parameters".

- 3.2.6.2 Process parameters shall be identified in site-specific procedurs. Typical parameters are:

- 3.2.6.2.1 Waste form.
    - 3.2.6.2.2 Settling time.
    - 3.2.6.2.3 Drain (or pump) time
    - 3.2.6.2.4 Drying time.

- 3.2.6.3 Sample analysis and boundary conditions shall be submitted to the Station Radwaste Supervisor.

- 3.2.6.3.1 For filter dewatering, data shall be submitted to the Station Health Physics Supervisor.

- 3.2.6.4 Station Supervisor shall review the data outlined in Step 3.2.6.3 and shall authorize dewatering prior to initiation.
  - 3.2.6.4.1 Difficulties and/or disagreements between vendor and station personnel should be resolved through direct interaction between vendor and station. Corporate Radwaste Engineering staff should be contacted if resolution can not be reached at the station level.
- 3.2.6.5 All operations shall be controlled by station procedures to assure that all boundary conditions established in Step 3.2.6.1 are met.
  - 3.2.6.5.1 Vendor procedures shall be incorporated as attachments to station procedures. Vendor format may be retained as a DPC enclosure if desired or the procedure may be rewritten into DPC format.
- 3.2.6.6 The absence of free liquids shall be verified for each vessel of dewatered waste prior to disposal. Verification shall be performed by either confirmation that the Process Control Program was followed or by physical testing.
  - 3.2.6.6.1 Physical testing shall be required for each vessel if the Process Control Program was not followed or if any off-normal condition existed during processing.
  - 3.2.6.6.2 A vessel shall have less than 0.5% free liquids by waste volume.
  - 3.2.6.6.3 A high integrity container shall have less than 1% free liquids by waste volume.
- 3.2.6.7 Any dewatered vessel containing excess free liquids, as defined in Step 3.2.6.6, shall not be shipped to a burial site until reprocessing or repackaging has resulted in an acceptable product.
- 3.2.6.8 Records shall be maintained by Duke Power Company on each vessel of dewatered wastes. These records shall be maintained for six (6) years (per the Administrative Policy Manual). These records shall include:
  - 3.2.6.8.1. Sample analysis and boundary conditions (per Step 3.2.6.3).
  - 3.2.6.8.2 Station supervisor authorization for dewatering (per Step 3.2.6.4).
  - 3.2.6.8.3 Equipment operation data to insure all boundary conditions were met (per Step 3.2.6.5).
  - 3.2.6.8.4 FSL Verification (per Step 3.2.6.6).

#### 4.0 WASTE OIL

4.1 Incidental levels of waste oil may be solidified using the system described in Section 2.2.

4.1.1 "Incidental" shall be defined as less than 1% oil.

4.2 If larger volumes of waste oil are to be solidified a special procedure shall be used.

4.2.1 The oil-specific procedure shall include all requirements in Section 2.0.

4.3 Solidified waste oil shall not be shipped to the licensed burial site at Barnwell, S.C. for disposal, except as defined in Step 4.1.

#### 5.0 INTERIM STORAGE

##### 5.1 Program Requirements

5.1.1 Station procedures shall be established to assure the following requirements are met:

5.1.1.1 Any processed (i.e., solidified or dewatered) waste that is stored for an interim period in a disposal container shall be packaged such that there is no interaction between the waste and its container.

5.1.1.2 If applicable, Certificates of Compliance shall be maintained at each station for all waste disposal containers used for interim storage.

5.1.1.3 Vendor supplied handling and storage procedures shall be maintained at each station.

5.1.1.4 Each container and waste shall be checked against information given in Steps 5.1.1.2 and 5.1.1.3 to insure all chemical compatibility requirements are met.

5.1.1.5 Station Radwaste or Health Physics supervision shall review the information in Step 5.1.1.4 and shall certify chemical compatibility and authorize storage.

5.1.1.6 Records shall be maintained by Duke Power Company for each container. These records shall be maintained for six (6) years (per the Administrative Policy Manual). These records shall include:

5.1.1.6.1 Chemical compatibility certification (per Step 5.1.1.5).

5.1.1.6.2 Station supervision authorization to store waste (per Step 5.1.1.5).

## 6.0 10 CFR 61 COMPLIANCE

### 6.1 Vendor Requirements

- 6.1.1 The vendor(s) described in Section 2.1 for solidification shall have a NRC approved report documenting compliance with waste form requirements in the final solidified product.
- 6.1.2 The vendor(s) described in Section 3.1 for dewatering shall have a NRC approved report documenting compliance with waste form requirements in the final dewatered product.
- 6.1.3 Any vendor providing High Integrity Containers to Duke Power Company shall have a NRC approved report documenting compliance with waste form requirements.
- 6.1.4 All vendor reports (per Steps 6.1.1, 6.1.2, and 6.1.3) shall contain a statement that the final product conforms to the appropriate waste form for either Class A, B or C waste.

### 6.2 Program Requirements

- 6.2.1 Station procedures shall be established to assure the following requirements are met:
  - 6.2.1.1 Each container of processed (i.e., solidified or dewatered) waste shall be classified as either Class A, B or C waste using the Duke Power Company "10 CFR Part 61 Waste Classification and Waste Form Implementation Program".
  - 6.2.1.2 Each container of processed waste shall be certified to the appropriate waste form for either Class A, B or C waste.
    - 6.2.1.2.1 Waste form certification shall be contingent upon the documents referenced in Section 6.1.
  - 6.2.1.3 Records shall be maintained for each container of processed waste to assure compliance with the requirements of Steps 6.2.1.1 and 6.2.1.2. These records shall be maintained for six (6) years (per the Administrative Policy Manual).

## 7.0 TRANSPORTATION

### 7.1 Program Requirements

- 7.1.1 All shipping casks used to transport processed waste for burial shall have a NRC issued Certificate of Compliance.
- 7.1.2 Station procedures shall be established to insure all requirements of the Certificate of Compliance are met.
  - 7.1.2.1 Vendor procedures shall be incorporated into station procedures prior to use. Vendor format may be retained if desired or the procedure may be rewritten into DPC format.

- 7.1.3 Station procedures shall be established to insure all applicable Federal and State regulations and burial site criteria are met for each container of processed waste.
- 7.1.4 Records shall be maintained for each container and shipment of processed waste. These records shall be maintained for six (6) years or life of station per the Administrative Policy Manual). These records shall include:
  - 7.1.4.1 Documentation of a valid Certificate of Compliance for each cask (per Step 7.1.1). Maintained for six (6) years.
  - 7.1.4.2 Documentation that all requirements of the Certificate of Compliance were met (per Step 7.1.2). Maintained for six (6) years.
  - 7.1.4.3 Documentation that all shipping regulations were met (per Step 7.1.3). Maintained for life of plant.

## 8.0 REVIEWS

### 8.1 Program Requirements

- 8.1.1 Changes to the Corporate Process Control Program shall be reviewed by the Corporate Radwaste Engineering staff and each station's Radwaste and Health Physics staffs prior to implementation. Proposed revisions shall be reviewed against Technical Specifications and all applicable NRC guidance to assure all requirements of a Process Control Program have been addressed. Review documents shall include:
  - 8.1.1.1 NUREG-0133.
  - 8.1.1.2 NUREG-0452
  - 8.1.1.3 NUREG-0800.
  - 8.1.1.4 Branch Technical Position - ETBS 11-3.
  - 8.1.1.5 Appendix 11.4-A, "Design Guidance for Temporary Storage...".
  - 8.1.1.6 NRC Review Criteria for Solid Waste Management Systems.
  - 8.1.1.7 Site-specific Technical Specifications.
- 8.1.2 Changes to the Corporate Process Control Program shall be approved by the System Radwaste Engineer and each station's Technical Services Superintendent prior to implementation.
- 8.1.3 Each Station Manager shall document that any changes to the Corporate Process Control Program have been reviewed and approved (per Steps 8.1.1 and 8.1.2).



- 8.1.4 The Nuclear Safety Review Board shall review the activities of the Station Manager detailed in Step 8.1.3.
- 8.1.5 A record of the review (per Step 8.1.4) shall be sent to the Vice President, Nuclear Production and the Executive Vice President, Power Operations within fourteen (14) days following completion of the review.
- 8.1.6 All changes to the Corporate PCP shall be sent to the NRC in each station's Semi-annual Radioactive Effluent Report for the period in which the changes were implemented.
- 8.1.7 Changes to all implementing procedures shall be reviewed by station radwaste or health physics staff and approved by the station's Technical Services Superintendent prior to implementation.
  - 8.1.7.1 Changes to implementing procedures shall be reviewed by the Technical Services Superintendent to assure they do not conflict with the Corporate Process Control Program.
- 8.1.8 Records shall be maintained documenting the requirements of Section 8.1. Records shall be maintained for six (6) years (per the Administrative Policy Manual).

## 9.0 AUDITS

### 9.1 Program Requirements

- 9.1.1 The Corporate Process Control Program and station implementing procedures shall be audited at least once per twenty four months at each station.
- 9.1.2 This audit shall be performed under the cognizance of the NSRB.
- 9.1.3 Audit reports shall be forwarded to the Vice President, Nuclear Production; Executive Vice President, Power Operations; and Station Manager within thirty (30) days of completion of the audit.

DUKE POWER COMPANY  
STATION  
PROCESS CONTROL PROGRAM

1.0 PURPOSE

The purpose of the Duke Power Company Station Process Control Program shall be to insure all requirements of the DPC Corporate Process Control Program have been met for each container of solidified or dewatered radioactive waste shipped for burial at a licensed burial facility.

2.0 COMPOSITION

2.1 The Duke Power Company Station Process Control Program shall consist of:

- 2.1.1 A list of all station-specific procedures that implement the requirements of the Corporate Process Control Program.
- 2.1.2 Diagrams or drawings or drawing numbers showing all connections between plant radwaste systems and solidification and dewatering equipment.
- 2.1.3 Documentation of NRC approval of the initial station Process Control Program.
- 2.1.4 Documentation of System Radwaste Engineer and station Technical Services Superintendent approval of all changes to the Corporate Process Control Program.
- 2.1.5 Documentation that all changes to the Corporate and/or Station Process Control Program were sent to the NRC in the Semi-Annual Radioactive Effluent Report.

3.0 EXCEPTIONS

3.1 The Station Process Control Program takes the following exceptions with the Corporate Process Control Program:



DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR:

TOPICAL REPORT NO:

SERVICES:

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Station Review

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

This vendor is approved to provide \_\_\_\_\_ services to  
\_\_\_\_\_ Nuclear Station.

\_\_\_\_\_  
System Radwaste Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
Technical Services  
Superintendent

Date: \_\_\_\_\_

DUKE POWER COMPANY  
PCP REVISION APPROVAL

Revised PCP Section: /

Corporate PCP, Rev\_\_\_\_  
ONS PCP, Rev\_\_\_\_  
MNS PCP, Rev\_\_\_\_  
CNS PCP, Rev\_\_\_\_

This revision has been reviewed against Technical Specifications and applicable NRC guidance documents and found to be acceptable.

General Office Review

Station Review

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

This revision is approved for use at \_\_\_\_\_ Nuclear Station.

\_\_\_\_\_  
System Radwaste Engineer

Date: \_\_\_\_\_

\_\_\_\_\_  
Technical Services  
Superintendent

Date: \_\_\_\_\_

\_\_\_\_\_  
Station Manager

Date: \_\_\_\_\_

DUKE POWER COMPANY  
OCONEE NUCLEAR STATION  
PROCESS CONTROL PROGRAM

1.0 PURPOSE

The purpose of the Oconee Nuclear Station Process Control Program is to insure all requirements of the DPC Corporate Process Control Program have been met for each container of solidified or dewatered radioactive waste shipped for burial at a licensed burial facility. This PCP is applicable only to the solidification or dewatering of liquid or wet solid radioactive waste.

2.0 COMPOSITION

2.1 The Oconee Nuclear Station Process Control Program shall consist of:

- 2.1.1 A list of all station-specific procedures that implement the requirements of the Corporate Process Control Program.
- 2.1.2 Oconee Nuclear Station diagrams or drawings or drawing numbers showing all connections between ONS radwaste systems and solidifications and dewatering equipment.
- 2.1.3 Documentation of NRC approval of the initial Oconee Nuclear Station Process Control Program.
- 2.1.4 Documentation of System Radwaste Engineer and ONS Technical Services Superintendent approval of all changes to the Corporate Process Control Program.
- 2.1.5 Documentation that all changes to the Corporate and/or ONS Process Control Program were sent to the NRC in the Semi-Annual Radioactive Effluent Report.

3.0 EXCEPTIONS

3.1 The Oconee Nuclear Station Process Control Program takes the following exceptions with the DPC Corporate Process Control Program:

- 3.1.1 For Corporate PCP section 2.1.2, station review and station Technical Services Superintendent approval are not required. Corporate review and approval of vendor solidification services are sufficient.
- 3.1.2 For Corporate PCP section 3.1.2, station review and station Technical Services Superintendent approval are not required. Corporate review and approval of vendor dewatering services are sufficient.

SECTION 2.1.1

Implementing Procedures

CP/0/B/5002/04	"Ecodex Precoat/Powdex/Diatomedus Earth Transfer From the Powdex Backwash Tank to Disposable Cask Liners"
CP/0/B/5002/10	"Bead Dewatering Procedure for CNSI 14-195 or Smaller Liners"
CP/0/B/5002/11	"Operating Guidelines for the use of CNSI High Integrity Containers"
CP/0/B/5002/12	"Handling Procedure for CNSI High Integrity Overpack Containers"
CP/0/B/5006/07	"Dewatering Procedure for CNSI 24" Diameter Vessels Containing Activated Carbon and Ion Exchange Resins"
CP/0/B/5008/06A	"Concentrate Storage Tank Recirculation and Transfer to the 121 Mobile Solidification Unit"
CP/1&2/B/5009/03	"Unit 1 and 2 Spent Resin Storage Tank (SRST) Resin Transfer to Disposable Liners"
CP/0/B/5010/04	"Operating Procedure for the Mobile Solidification Unit # 121"
CP/0/B/5010/04A	"Assembly and Disassembly Procedure for the Mobile Solidification Unit # 121"
CP/0/B/5010/04B	"PCP Required Records for Solidified Concentrates"
CP/0/B/5010/05	"PCP for CNSI Solidification Unit"
CP/0/B/5010/07	"PCP for CNSI Acid Solidification"
CP/0/B/5010/08	"PCP for CNSI Cement/Oil Solidification"
HP/0/B/1006/01/A	"Procedure for the Preparation and Shipment of Radioactive Waste"

SECTION 2.1.2

Drawing Index

All system interfaces are shown on diagrams in the applicable station procedure

DUKE POWER COMPANY  
PCP REVISION APPROVAL

Revised PCP Section:

Corporate PCP, Rev 0  
ONS PCP, Rev 0  
MNS PCP, Rev       
CNS PCP, Rev     

This revision has been reviewed against Technical Specifications and applicable NRC guidance documents and found to be acceptable.

General Office Review

By: N.J. Dameron

Title: Assist. H.P.

Date: 12-28-84

Station Review

By: A.T. Horvick / R.W. Elliott

Title: Jr. Engineer / Tech. Specialist

Date: 1-2-85 / 01-02-85

This revision is approved for use at Oconee Nuclear Station.

Mary G. Birch

System Radwaste Engineer

Date: 1/4/85

J.S. Bar

Oconee Technical Services  
Superintendent

Date: 1/2/85

M.S. Tuckman  
Oconee Station Manager

Date: 1/4/85

DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR: Chem-Nuclear

TOPICAL REPORT NO: CNSI-DW-1118-01

SERVICES: Dewatering

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: H. Jean Hamelton

Title: Assist. H.P.

Date: Dec 31, 1984

This vendor is approved to provide dewatering services to  
Oconee Nuclear Station.

Mary L. Suik  
System Radwaste Engineer

Date: 12/31/84

DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR: Chem-Nuclear  
TOPICAL REPORT NO: 4313-01354-01D-A  
SERVICES: Cement Solidification

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: H. J. Cameron

Title: Assist. H.P.

Date: Dec 31, 1984

This vendor is approved to provide solidification services to  
Oconee Nuclear Station.

Mary L. Buch  
System Radwaste Engineer

Date: 12/31/84



DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR: Chem-Nuclear Systems  
TOPICAL REPORT NO: WF-C-01-ND  
SERVICES: Part 61 Compliance (Solidification)

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: H. J. Cameron

Title: Assist. H.P.

Date: Dec 31, 1984

This vendor is approved to provide Part 61 Certifi- services to  
Oconee Nuclear Station. cation

Mary L. Smith  
System Radwaste Engineer

Date: 12/31/84

DUKE POWER COMPANY  
MCGUIRE NUCLEAR STATION  
PROCESS CONTROL PROGRAM

1.0 PURPOSE

The purpose of the McGuire Nuclear Station Process Control Program is to insure all requirements of the DPC Corporate Process Control Program have been met for each container of solidified or dewatered radioactive waste shipped for burial at a licensed burial facility. This PCP is applicable only to the solidification or dewatering of liquid or wet solid radioactive waste.

2.0 COMPOSITION

2.1 The McGuire Nuclear Station Process Control Program shall consist of:

- 2.1.1 A list of all station-specific procedures that implement the requirements of the Corporate Process Control Program.
- 2.1.2 McGuire Nuclear Station diagrams or drawings or drawing numbers showing all connections between radwaste systems and solidifications and dewatering equipment.
- 2.1.3 Documentation of NRC approval of the initial McGuire Nuclear Station Process Control Program.
- 2.1.4 Documentation of System Radwaste Engineer and MNS Technical Services Superintendent approval of all changes to the Corporate Process Control Program.
- 2.1.5 Documentation that all changes to the Corporate and/or MNS Process Control Program were sent to the NRC in the Semi-Annual Radioactive Effluent Report.

SECTION 2.1.1

Implementing Procedures

CP/O/B/8300/20	"Radwaste Chemistry Procedure for Handling of Laboratory Quantities of Spent Resin"
CP/O/B/8400/31	"Radwaste Chemistry Procedure for Addition of Chemicals to the ECST and the ECBT"
CP/O/B/8600/11	"Chemistry Procedure for Sampling with the Isolok Sampler"
HP/O/B/1004/04	"Preparation and Shipment of Mechanical Radwaste Filter Media"
HP/O/B/1004/09	"Preparation and Shipment of Processed Radwaste Materials"
HP/O/B/1004/12	"Utilization of Polyethylene High Integrity Overpacks"
HP/O/B/1004/14	"Preparation and Shipment of Dewatered Resins"
OP/O/B/6200/32	"Radwaste Procedure for the Nuclear Solid Waste (WS) Disposal System Operation"
OP/O/B/6200/37	"Radwaste Procedure for Binder Storage Tank Operation"
OP/O/B/6200/53	"Radwaste Chemistry Procedure for Transfer, Solidification and Preparation for Shipment"
OP/O/B/6200/64	"Radwaste Chemistry Procedure for Transfer, Dewatering and Shipment of Bead Resin"
OP/O/B/6200/65	"Radwaste Chemistry Procedure for Transfer, Dewatering and Shipment of Powdex Resin"
OP/O/B/6200/66	"Radwaste Chemistry Procedure for Dewatering Vendor Demineralizers"
OP/O/B/6250/09	"Condensate Polishing Demineralizer Operation"

SECTION 2.1.2

Drawing Index

Plant Interfaces: MC-1100-01.02  
MC-1423-19.32-02  
MC-1566-1.0  
MC-1566-1.1  
MC-1566-2.0  
MC-1566-3.0  
MC-1590-1.3  
MC-1604-1.1

DUKE POWER COMPANY  
PCP REVISION APPROVAL

Revised PCP Section: (Circle One)

Corporate PCP, Rev. 0  
ONS PCP, Rev.       
MNS PCP, Rev. 3  
CNS PCP, Rev.     

This revision has been reviewed against Technical Specifications and applicable NRC guidance documents and found to be acceptable.

General Office Review

By: N. J. Jameron  
Title: Assist. N. P.  
Date: Dec 27, 1984

Station Review

By: D. J. Formel  
Title: Radwaste Supervisor  
Date: 12-28-84

This revision is approved for use at McGuire Nuclear Station.

Mary L. Birch  
System Radwaste Engineer  
Date: Dec 27, 1984

Tom J. McConnell  
McGuire Technical Services  
Superintendent  
Date: 12/31/84

[Signature]  
McGuire Station Manager  
Date: 12/31/84

Subject: McGuire Nuclear Station  
Process Control Program

Please find attached copy/copies No. 28 of Revision 2 of the subject manual. Only affected pages should be changed in accordance with the List of Effective Pages. Note that this document contains proprietary information.

Revision 2 of this manual has been approved as indicated below.

Approval Date: 2/28/83

Approval Date: 2/28/83

*Mary L. Birch*

M. L. Birch  
System Radwaste Engineer

*M. D. McIntosh*

M. D. McIntosh, Manager  
McGuire Nuclear Station

*7/15/83*

**DUKE POWER COMPANY**

P.O. BOX 33189  
CHARLOTTE, N.C. 28242

HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

TELEPHONE  
(704) 373-4531

March 11, 1983

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief  
Licensing Branch No. 4

Re: McGuire Nuclear Station  
Docket Nos. 50-369, 50-370  
Process Control Program

Dear Mr. Denton:

Please find enclosed 20 copies of Revision 2 of the Process Control Program. This revision is submitted as a result of the revised McGuire Nuclear Station Technical Specifications which require additional information on the Dewatering Process. Determination was made that this change does not reduce the overall conformance of the solidified waste product to existing criteria for solid wastes. This revision has been reviewed and approved by the station manager as indicated on the following cover sheet.

According to Technical Specification requirements, revisions to the Process Control Program are to be submitted in the semi-annual Radioactive Effluent Release Report. As a matter of convenience, we are submitting this revision prior to submittal of the semi-annual Radioactive Effluent Release report for the period January-June 1983. Please advise if there are any questions concerning this matter.

Very truly yours,

*H. B. Tucker*

Hal B. Tucker

WHM/php  
Attachment

cc: (w/o attachment)  
Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30303

Mr. W. T. Orders  
NRC Senior Resident Inspector  
McGuire Nuclear Station

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

August 22, 1980

TELEPHONE: AREA 704  
373-4083

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. B. J. Youngblood, Chief  
Licensing Projects Branch No. 1

Re: McGuire Nuclear Station, Units 1 and 2  
Docket Nos. 50-369, 50-370

Dear Mr. Denton:

At requested by Mr. Robert L. Tedesco's letters of July 29, 1980 and July 31, 1980, please find attached additional information on the discussion in the McGuire Final Safety Analysis Report on the Radwaste Management System at McGuire Nuclear Station, the Radiological Effluent Technical Specifications, the Offsite Dose Calculation Manual, and the Process Control Program.

Revision 1 of the Process Control Program has been reviewed and approved. Our response includes 20 copies of a nonproprietary Process Control Program, Revision 1, and 20 copies of the proprietary Process Control Program, Revision 1.

Revision 1 of the McGuire Offsite Dose Calculation Manual has been reviewed and approved. Ten copies of this document are attached.

Also note that a response has been provided to your informal request for information telecopied to us on August 5, 1980.

Please advise us if you have any questions on this material.

Very truly yours,

*William O. Parker, Jr.*  
William O. Parker, Jr.

LJB:scs  
Attachments



August 19, 1980

Subject: McGuire Nuclear Station  
Process Control Program

Please find attached copy/copies No. 28 of Revision 1 of the subject manual. As this revision constitutes a complete reprint of the manual, please discard all present manuals. Subsequent revisions will be issued as required and only affected pages will be changed. Note that this document contains proprietary information.

Revision 1 of this manual has been approved as indicated below.

Approval Date: 8/22/80

*L. Lewis*

Lionel Lewis  
System Health Physicist

Approval Date: 8/21/80

*M. D. McIntosh*

M. D. McIntosh, Manager  
McGuire Nuclear Station



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

LTB  
Mc-201.01

JUL 3 1980

Docket Nos.: 50-369  
and 50-370

Mr. William O. Parker, Jr.  
Vice President - Steam Production  
Duke Power Company  
Post Office Box 33189  
422 South Church Street  
Charlotte, North Carolina 28242

Dear Mr. Parker:

Subject: Process Control Program  
(McGuire Nuclear Station, Units 1 & 2)

By letter dated July 8, 1980, you provided a proprietary report "Process Control Program for CNSI Mobile Solidification Units Using the Dow Process" (SD-OP-005). We have reviewed the material based on the requirements and criteria of 10 CFR 2.790 and have determined that the document sought to be withheld contains trade secrets or confidential or privileged commercial or financial information.

In order for us to complete our review and evaluation we request that you provide a non-proprietary PCP considering the non-proprietary Dow report DNS-RSS-001-NP and the non-proprietary CNSI information in order that we can accept the PCP for review. We will need the revised non-proprietary PCP for solidification and the packaging of wet solid radioactive waste by August 15, 1980, in order to evaluate and complete our review before licensing.

Sincerely,

A handwritten signature in cursive script that reads "Robert L. Tedesco".

Robert L. Tedesco, Assistant Director  
for Licensing  
Division of Licensing

DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR: CHEM-NUCLEAR SYSTEMS  
TOPICAL REPORT NO: CNSI-DW-11118-01  
SERVICES: DEWATERING

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: N. J. Cameron

Title: Assist. H.P.

Date: 12-27-84

Station Review

By: D. H. Hume

Title: Radwaste Supervisor

Date: 12-20-84

This vendor is approved to provide dewatering services to McGuire Nuclear Station.

Mary L. Birch  
System Radwaste Engineer

Date: 12/31/84

Tom J. McConnell  
McGuire Technical Services  
Superintendent

Date: 12/21/84

DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR: CHEM-NUCLEAR SYSTEMS  
TOPICAL REPORT NO: 4313-01354-01P-A  
SERVICES: CEMENT SOLIDIFICATION

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: H. J. Cameron

Title: Assist. H.P.

Date: 12-28-84

Station Review

By: R. H. Hume

Title: Radwaste Supervisor

Date: 12-20-84

This vendor is approved to provide solidification services to McGuire Nuclear Station.

Mary L. Smith  
System Radwaste Engineer

Date: 12/31/84

Tony D. McConnell  
McGuire Technical Services  
Superintendent

Date: 12/21/84

DUKE POWER COMPANY  
PCP VENDOR APPROVAL

VENDOR: CHEM-NUCLEAR SYSTEMS

TOPICAL REPORT NO: WF-C-01-NP

SERVICES: PART 61 COMPLIANCE (SOLIDIFICATION AND DEWATER.)

This vendor's topical report and support documents have been reviewed against the Duke Power Company Corporate Process Control Program and found to be acceptable.

General Office Review

By: N.J. Dameron

Title: assist. N.P.

Date: 12-28-84

Station Review

By: [Signature]

Title: Radwaste Supervisor

Date: 12-20-84

This vendor is approved to provide McGuire Nuclear Station, Part 61 Certifi- services to cation

Mary L. Bueh  
System Radwaste Engineer

Date: 12/31/84

Tony M. Cornell  
McGuire Technical Services  
Superintendent

Date: 12/21/84

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
PROCESS CONTROL PROGRAM

1.0 PURPOSE

The purpose of the Catawba Nuclear Station Process Control Program is to insure all requirements of the DPC Corporate Process Control Program have been met for each container of solidified or dewatered radioactive waste shipped for burial at a licensed burial facility. This PCP is applicable only to the solidification or dewatering of liquid or wet solid radioactive waste.

2.0 COMPOSITION

2.1 The Catawba Nuclear Station Process Control Program shall consist of:

- 2.1.1 A list of all station-specific procedures that implement the requirements of the Corporate Process Control Program.
- 2.1.2 Catawba Nuclear Station diagrams or drawings or drawing numbers showing all connections between CNS radwaste systems and solidifications and dewatering equipment.
- 2.1.3 Documentation of NRC approval of the initial Catawba Nuclear Station Process Control Program.
- 2.1.4 Documentation of System Radwaste Engineer and CNS Technical Services Superintendent approval of all changes to the Corporate Process Control Program.
- 2.1.5 Documentation that all changes to the Corporate and/or CNS Process Control Program were sent to the NRC in the Semi-Annual Radioactive Effluent Report.

SECTION 2.1.1

Implementing Procedures

HP/O/B/1006/09	"Shipment of Radioactive Filters and Filter Media"
HP/O/B/1006/10	"Shipment of Solidified Radwaste"
HP/O/B/1006/12	"Shipment of Dewatered Resins"
HP/O/B/1006/13	"Determination of the Waste Classification for Radioactive Waste Offered for Shallow Land Burial"
OP/O/B/6500/13	"Operating Procedure for the Nuclear Solid Waste (WS) Disposal System"
OP/O/B/6500/46	"Radwaste Operating Procedure for Solidification and Dewatering of Radioactive Waste"
OP/O/B/6500/49	"Radwaste Chemistry Operating Procedure for Sampling the ECHT, ECBT, and RBT Using In-line Samples"

SECTION 2.1.2

Drawing Index

Plant Interfaces: CN-1566-1.6



DUKE POWER COMPANY  
PCP REVISION APPROVAL

Revised PCP Section: (Circle One)

Corporate PCP, Rev 0  
ONS PCP, Rev       
MNS PCP, Rev       
CNS PCP, Rev 0

This revision has been reviewed against Technical Specifications and applicable NRC guidance documents and found to be acceptable.

General Office Review

By: H. J. Jamerson  
Title: Assist. H. P.  
Date: Dec 27, 1984

Station Review

By: Jeffrey Land Hildebrand  
Title: H.P. Supervisor / Radwaste Coord.  
Date: 12-31-84

This revision is approved for use at Catawba Nuclear Station.

Mark L. Smith  
System Radwaste Engineer  
Date: Dec 27, 1984

D. W. Lee  
Catawba Technical Services  
Superintendent  
Date: 1/5/85

J. W. Hampton  
Catawba Station Manager  
Date: 1-7-85

DUKE POWER COMPANY  
P.O. BOX 33189  
CHARLOTTE, N.C. 28242

HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

November 29, 1984

TELEPHONE  
(704) 373-4531

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

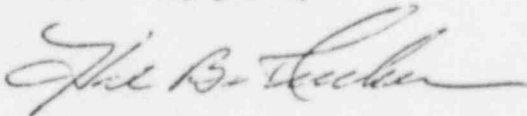
Attention: Ms. E. G. Adensam, Chief  
Licensing Branch No. 4

Re: Catawba Nuclear Station, Units 1 and 2  
Docket Nos. 50-413 and 50-414  
Process Control Program

Dear Mr. Denton:

In response to your letter dated September 14, 1984 requesting additional information regarding Catawba's Process Control Program (PCP), and as committed to in my October 3, 1984 letter please find attached the Catawba specific PCP.

Very truly yours,



Hal B. Tucker

RWO:s1b

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

NRC Resident Inspector  
Catawba Nuclear Station

Mr. Jesse L. Riley  
Carolina Environmental Study Group  
854 Henley Place  
Charlotte, North Carolina 28207

Palmetto Alliance  
2135 1/2 Devine Street  
Columbia, South Carolina 29205

Robert Guild, Esq.  
P. O. Box 12097  
Charleston, South Carolina 29412

