



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

June 22, 2009

Stewart B. Minahan, Vice  
President-Nuclear and CNO  
Nebraska Public Power District  
72676 648A Avenue  
Brownville, NE 68321

SUBJECT: COOPER NUCLEAR STATION - NRC RADIATION SAFETY TEAM  
INSPECTION REPORT 05000298/2009011

Dear Mr. Minahan

On May 15, 2009, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Cooper Nuclear Station facility. The enclosed Radiation Safety Team inspection report documents the inspection findings which were discussed with Mr. B. O'Grady, Site Vice President, and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The team reviewed selected procedures and records, observed activities, and interviewed personnel. Specifically, the team evaluated the inspection areas within the Radiation Protection Strategic Performance Area that are scheduled for review every two years. These areas are:

- Radiation Monitoring Instrumentation
- Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems
- Radioactive Material Processing and Transportation
- Radiological Environmental Monitoring Program and Radioactive Material Control Program

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

**/RA/**

Gregory E. Werner, Chief  
Plant Support Branch 2  
Division of Reactor Safety

Dockets: 50-298  
Licenses: NPF-46

Enclosure:  
NRC Inspection Report 05000298/2009011  
w/Attachment: Supplemental Information

cc w/enclosure:  
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Sunsi Review Completed: Yes ADAMS:  Yes  No Initials:       
 Publicly Available  Non-Publicly Available  Sensitive  Non-Sensitive

RIV:DRS/PSB2	PSB2	PSB2	PSB2	C:PSB2
LTRicketson	LCCarsonII	DCGraves	DLStearns	GEWerner
<b>/RA/</b>	<b>/RA/</b>	<b>/RA/</b>	<b>/RA/</b>	<b>/RA/ JFDrake for</b>
6/15/09	6/16/09	6/16/09	6/16/09	6/19/09

C:DRP/C	C:PSB2			
GBMiller	GEWerner			
<b>/RA/</b>	<b>/RA/</b>			
6/22/09	6/22/09			

OFFICIAL RECORD COPY T=Telephone E=E-mail F=Fax

**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION IV**

Docket: 05000298

License: DPR-46

Report: 05000298/2009011

Licensee: Nebraska Public Power District

Facility: Cooper Nuclear Station

Location: 72676 648A Avenue  
Brownville, NE 68321

Dates: May 11 through 15, 2009

Inspectors: Larry T. Ricketson, P.E., Senior Health Physicist - Team Leader  
Louis C. Carson II, Senior Health Physicist  
David C. Graves, Health Physicist  
Donald L. Stearns, Health Physicist

Accompanied By: Casey C. Alldredge, Health Physicist (NSPDP)  
Natasha A. Greene, PhD, Health Physicist

Approved By: Gregory E. Werner, Chief  
Plant Support Branch 2  
Division of Reactor Safety

## SUMMARY OF FINDINGS

05000298/2009011; 05/11/09 – 05/15/09; Cooper Nuclear Station; Radiation Safety Team Inspection

The report covered a five-day period of inspection on site by a team of four region-based health physics inspectors. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified.

B. Licensee-Identified Violations

None

## REPORT DETAILS

### 2. RADIATION SAFETY

**Cornerstones: Occupational Radiation Safety [OS] and Public Radiation Safety [PS]**

#### **2OS3 Radiation Monitoring Instrumentation and Protective Equipment (71121.03)**

##### a. Inspection Scope

This area was inspected to determine the accuracy and operability of radiation monitoring instruments that are used for the protection of occupational workers and the adequacy of the program to provide self-contained breathing apparatus (SCBA) to workers. The team used the requirements in 10 CFR Part 20 and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed:

- Calibration of area radiation monitors associated with transient high and very high radiation areas and post-accident monitors used for remote emergency assessment;
- Calibration of portable radiation detection instrumentation, electronic alarming dosimetry, and continuous air monitors used for job coverage;
- Calibration of whole body counting equipment and radiation detection instruments utilized for personnel and material release from the radiologically controlled area;
- Audits and self-assessments; licensee event reports or special reports, if any were required since the previous inspection;
- Corrective action program reports since the last inspection;
- Licensee action in cases of repetitive deficiencies or significant individual deficiencies;
- Calibration expiration and source response check currency on radiation detection instruments staged for use;
- The licensee's capability for refilling and transporting SCBA air bottles to and from the control room and operations support center during emergency conditions, status of SCBA staged and ready for use in the plant and associated surveillance records, and personnel qualification and training;

- Qualification documentation for onsite personnel designated to perform maintenance on the vendor-designated vital components, and the vital component maintenance records for SCBA units.

Specific documents reviewed during this inspection are listed in the attachment.

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports or special reports

These activities constitute completion of nine of the required nine samples as defined in Inspection Procedure 71121.03-05.

b. Findings

No findings of significance were identified.

**2PS1 Radioactive Gaseous and Liquid Effluent Treatment And Monitoring Systems (71122.01)**

a. Inspection Scope

This area was inspected to: (1) ensure that the gaseous and liquid effluent processing systems are maintained so that radiological discharges are properly mitigated, monitored, and evaluated with respect to public exposure; (2) ensure that abnormal radioactive gaseous or liquid discharges and conditions, when effluent radiation monitors are out-of-service, are controlled in accordance with the applicable regulatory requirements and licensee procedures; (3) verify that the licensee's quality control program ensures that the radioactive effluent sampling and analysis requirements are satisfied so that discharges of radioactive materials are adequately quantified and evaluated; and (4) verify the adequacy of public dose projections resulting from radioactive effluent discharges. The team used the requirements in 10 CFR Part 20; 10 CFR Part 50, Appendices A and I; 40 CFR Part 190; the Offsite Dose Calculation Manual, and licensee procedures required by the Technical Specifications as criteria for determining compliance.

The team conducted in-office inspection and reviewed:

- Appropriate program documents, procedures and evaluations related to the radiological effluent controls program listed in the attachment to this report;
- The implementation of the Radiological Effluent Controls Program requirements as described in Radiological Effluent Technical Specifications;
- Changes, if any, to the liquid or gaseous radioactive waste system design, procedures, or operation as described in the Updated Final Safety Analysis Report;

- Changes, if any, to the Official Dose Calculation Manual made by the licensee since the last inspection;
- The annual effluent release reports since the previous inspection;
- The correlation between the effluent doses and the environmental monitoring results;

The team conducted an onsite inspection which included interviewing cognizant licensee personnel, performing walkdowns of facilities and equipment, and observing licensee activities to review:

- The gaseous and liquid discharge system configuration;
- Selected point of discharge effluent radiation monitoring systems and flow measurement devices;
- The observation of selected portions of the routine processing and discharge of radioactive gaseous and liquid effluent (sample collection and analysis) including a selection of radioactive gaseous and liquid waste effluent discharge permits;
- Effluent discharges made with inoperable (declared out-of-service) effluent radiation monitors including the projected doses to members of the public;
- Surveillance test results on non-safety related ventilation and gaseous discharge systems (HEPA and charcoal filtration) including the methodology to determine the stack and vent flow rates;
- The identification of non-radioactive systems that have become contaminated, if applicable;
- Effluent monitoring instrument (installed and counting room) maintenance, quality control, and calibration;
- The methods used to determine the isotopes in the plant source term;
- A selection of monthly, quarterly, and annual dose calculations;
- Records of abnormal gaseous or liquid discharges, if any, including the evaluation and analysis of events involving spills or discharges, dose assessments to members of the public, required (or voluntary) offsite notifications, and assessments and reporting of abnormal discharges in the Annual Radiological Effluent Release Report;
- Effluent sampling records.

The team reviewed the licensee's program of problem identification and resolution, including:

- Placement of problems identified through audits, self assessments, and monitoring results into the corrective action program and adequacy of immediate and long term corrective actions;
- Problem identification and resolution follow-up activities;
- Identification of repetitive deficiencies or significant individual deficiencies in problem identification and resolution identified by the licensee's self-assessment activities.

Specific documents reviewed during this inspection are listed in the attachment.

These activities constitute completion of three of the required three samples, as defined in Inspection Procedure 71122.01-05.

b. Findings

No findings of significance were identified.

**2PS2 Radioactive Material Processing and Transportation (71122.02)**

a. Inspection Scope

This area was inspected to verify that the licensee's radioactive material processing and transportation program complies with the requirements of 10 CFR Parts 20, 61, and 71 and Department of Transportation regulations contained in 49 CFR Parts 171-180. The team interviewed licensee personnel and reviewed:

- The radioactive waste system description, recent radiological effluent release reports, and the scope of the licensee's audit program;
- Liquid and solid radioactive waste processing systems configurations, the status and control of any radioactive waste process equipment that is not operational or is abandoned in place, changes made to the radioactive waste processing systems since the last inspection, and current processes for transferring radioactive waste resin and sludge discharges;
- Radio-chemical sample analysis results for radioactive waste streams and use of scaling factors and calculations to account for difficult-to-measure radionuclides;
- Shipment packaging, surveying, labeling, marking, placarding, vehicle checking, driver instructing, and disposal manifesting;

- Shipping records for non-excepted package shipments;
- Licensee event reports, special reports, audits, state agency reports, self-assessments and corrective action reports performed since the last inspection, if any.

Specific documents reviewed during this inspection are listed in the attachment.

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports or special reports

These activities constitute completion of six of the required six samples, as defined in Inspection Procedure 71122.02-04.

b. Findings

No findings of significance were identified.

**2PS3 Radiological Environmental Monitoring Program and Radioactive Material Control Program (71122.03)**

a. Inspection Scope

This area was inspected to ensure that the radiological environmental monitoring program verifies the impact of radioactive effluent releases to the environment and sufficiently validates the integrity of the radioactive gaseous and liquid effluent release program; and that the licensee's surveys and controls are adequate to prevent the inadvertent release of licensed materials into the public domain. The team used the requirements in 10 CFR Part 20, Appendix I of 10 CFR Part 50, the Offsite Dose Calculation Manual, and the licensee's procedures required by technical specifications as criteria for determining compliance. The team interviewed licensee personnel and reviewed

- Annual environmental monitoring reports and licensee event reports;
- Selected air sampling and thermoluminescence dosimeter monitoring stations;
- Collection and preparation of environmental samples;
- Operability, calibration, and maintenance of meteorological instruments;
- Each event documented in the Annual Environmental Monitoring Report which involved a missed sample, inoperable sampler, lost thermoluminescence dosimeter, or anomalous measurement;

- Significant changes made by the licensee to the Offsite Dose Calculation Manual as the result of changes to the land census or sampler station modifications since the last inspection;
- Calibration and maintenance records for air samplers, composite water samplers, and environmental sample radiation measurement instrumentation, quality control program, interlaboratory comparison program results, and vendor audits;
- Locations where the licensee monitors potentially contaminated material leaving the radiological 14 controlled area [or controlled access area] and the methods used for control, survey, and release from these areas;
- Type of radiation monitoring instrumentation used to monitor items released, survey and release criteria of potentially contaminated material, radiation detection sensitivities, procedural guidance, and material release records;
- Audits, self-assessments, corrective action documents and licensee event reports or special reports, if any were required, since the previous inspection.

Specific documents reviewed during this inspection are listed in the attachment.

Either because the conditions did not exist or an event had not occurred, no opportunities were available to review the following items:

- Licensee event reports or special reports

These activities constitute completion of ten of the required ten samples, as defined in Inspection Procedure 71122.03-04.

b. Findings

No findings of significance were identified.

#### 4. OTHER ACTIVITIES

##### 40A2 Problem Identification and Resolution

###### Annual Sample Review

###### a. Inspection Scope

The team evaluated the effectiveness of the licensee's problem identification and resolution process with respect to the following inspection areas:

- Radiation Monitoring Instrumentation (Section 2OS3)
- Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems (Section 2PS1)
- Radioactive Material Processing and Transportation (Section 2PS2)
- Radiological Environmental Monitoring Program and Radioactive Material Control Program (Section 2PS3)

###### b. Findings and Observations

Condition Report 2007-01179 was closed before the proposed corrective action was implemented. The corrective action was to revise Procedure 4.15.2, "Turbine Building Ventilation Radiation Monitoring System." Condition Report CNS-2009-3840 was initiated to document this condition. In another area, the licensee had not evaluated Regulatory Issue Summary 2005-11, "Requirements for Power Reactor Licenses in Possession of Devices Subject to the General License Requirements of 10 CFR 31.5," for applicability. Condition Report CNS-2009-03808 was initiated to document this condition.

##### 40A5 Other Activities

###### .1 (Closed) Temporary Instruction 2515/173, "Review of the Implementation of the Industry Groundwater Protection Voluntary Initiative"

###### a. Inspection Scope

An NRC assessment was performed of the licensee's groundwater protection program to determine whether the licensee implemented the voluntary Industry Groundwater Protection Initiative, dated August 2007 (Nuclear Energy Institute 07-07, ADAMS Accession Number ML072610036). Inspectors interviewed personnel, performed walk-downs of selected areas, and reviewed the following items:

- Records of the site characterization of geology and hydrology;

- Evaluations of systems, structures, and or components that contain or could contain licensed material and evaluations of work practices that involve licensed material for which there is a credible mechanism for the licensed material to reach the groundwater;
- Implementation of an onsite groundwater monitoring program to monitor for potential licensed radioactive leakage into groundwater;
- Procedures for the decision making process for potential remediation of leaks and spills, including consideration of the long term decommissioning impacts;
- Records of leaks and spills recorded, if any, in the licensee's decommissioning files in accordance with 10 CFR 50.75(g);
- Licensee briefings of local and state officials on the licensee's groundwater protection initiative;
- Protocols for notification to the local and state officials, and to the NRC regarding detection of leaks and spills;
- Protocols and/or procedures for thirty day reports if an onsite groundwater sample exceeds the criteria in the radiological environmental monitoring program;
- Groundwater monitoring results as reported in the annual effluent and/or environmental monitoring report;
- Licensee and industry assessments of implementation of the groundwater protection initiative.

b. Findings

No findings of significance were identified. Implementation of the Industry Groundwater Protection Initiative is voluntary. Under the final Initiative, each site was to have developed an effective, technically sound groundwater protection program by August 2008. The licensee completed its Industry Groundwater Protection Initiative self-assessment December 2008 and issued the report on May 11, 2009. The self-assessment identified the licensee had not completed its hydrological study and evaluation of all systems, structures, and components that contain licensed radioactive material to determine potential leak or spill mechanisms. The licensee had not prepared procedures for the decision making process for potential remediation of leaks and spills. At the time of the inspection, the licensee still had not completed the actions but the team confirmed the findings of the self-assessment were entered into the corrective action program. The licensee is scheduled to complete the Nuclear Energy Institute assessment by December 2009.

**4OA6 Management Meetings**

Exit Meeting Summary

On May 15, 2009, the team presented the inspection results to Mr. B. O'Grady, Site Vice President, and other members of his staff who acknowledged the findings. The team confirmed that proprietary information was not provided or examined during the inspection.

ATTACHMENT: SUPPLEMENTAL INFORMATION

## SUPPLEMENTAL INFORMATION

### KEY POINTS OF CONTACT

#### Licensee personnel

R. Beilke, Manager, Chemistry  
J. Bednar, Supervisor, Radiation Protection  
R. Duncan, Radiation Protection Technician  
K. Fike, Plant Chemist,  
S. Freiling, Radiation Protection Technician  
G. Kahnk, Senior Engineer, Systems Engineering  
J. Kuttler, Radwaste Specialist  
L. Maine, Technician, Chemistry  
E. McCutchen, Senior Engineer, Licensing  
R. McDonald, Staff Health Physicist  
B. O'Grady, Site Vice President  
D. Oshlo, Manager, Radiation Protection  
S. Robinson, Staff Health Physicist  
C. Stipp, Environmental Coordinator  
C. Stults, Radiological Specialist  
J. Teten, Supervisor, Chemistry  
J. White, Technician, Specialist, Radiation Protection  
B. Williams, Radwaste Specialist  
D. Willis, General Manager, Plant Operations  
F. Zarcarola, Environmental Chemist

#### NRC

M. Chambers, Resident Inspector  
T. Pruett, Deputy Director, Division of Reactor Safety  
N. Taylor, Senior Resident Inspector

### LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

#### Opened

None

#### Opened and Closed

None

#### Closed

None

#### Discussed

None

## LIST OF DOCUMENTS REVIEWED

### Section 2OS3: Radiation Monitoring Instrumentation and Protective Equipment

#### AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
Surveillance S08- 04	Occupational Radiation Safety	3/11/08

#### NUCLEAR PROCUREMENT ISSUES COMMITTEE (NUPIC) AUDITS

NUPIC Audit 19889	TSI Incorporated, St. Paul MN.	11/29/07
NUPIC Audit 19624	Thermo Fisher Scientific, West Columbia, SC	8/02/07
NUPIC Audit 20110	Teledyne Brown Environmental Services, Knoxville, TN	11/18/08

#### PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
6.PRM.329	Containment High Range Monitors A/R/H Determination	3
6.PRM.324	Main Steam Line Process Radiation Monitor Channel Calibration, Source Test, and Setpoint Determination	18
6.PRM.323	High Range Containment Monitor Victoreen Model 875 Source Calibration Check	6
6.PRM.322	Containment High Range Area Monitor Channel Calibration and Setpoint Determination	10
6.PRM.313	Reactor Building Kaman Monitor Channel Calibration	12
6.PRM.308	Liquid Radwaste Effluent System Channel Calibration	11
6.PRM.302	Off-gas Radiation Monitor Linearity Test and Efficiency Determination	6
6.PRM.301	Off-gas Radiation Monitor Source Check Test	12
9.INST.11	Calibration Verification of NIST Traceable Radioactive Sources	1
9.INST.27	Dual Source Model 89 Gamma Calibration Range	3
9.INST.25	Model 142-S Panoramic Gamma Irradiator	3
9.INST.44	Radeco Low Volume Air Sampler Operation and Calibration	2
9.INST.47	Eberline Personnel Contamination Monitor Model PCM-2	4
9.INST.50	Hand-held GM Survey Meters	6
9.INST.53	Ion Chamber Survey Instrument Eberline Models RO-2, RO- 2A, and RO-20	2
9.INST.55	Eberline Model ASP-1 with Model NRD Neutron Detector	1
9.RESP.2	Self-Contained Breathing Apparatus	17
9.RESP4	Bauer FS-9 Air Compressor Air Quality Monitoring	5
9.RESP.5	Plant Service Air Quality Checks	1

AREA MONITOR CALIBRATIONS

<u>CHANNEL NUMBER</u>	<u>MONITOR DESCRIPTION</u>	<u>SURVEILLANCE PROCEDURE</u>	<u>DATE</u>
RMS-RM-40A/B	Containment High Range Area Monitor Functional Test	6.PRM.321	4/27/2009
RMS-RM-40A/B	Containment High Range Area Monitor Channel Calibration and Setpoint Determination	6.PRM.322	3/24/2008
6.PRM.323	High Range Containment Monitor Victoreen Model 875 Source Calibration Check	6.PRM.323	4/18/2008

RADIATION PROTECTION INSTRUMENT CALIBRATIONS

<u>IDENTIFICATION NUMBER</u>	<u>INSTRUMENT TYPE</u>	<u>DATE</u>
Fastscan	Whole Body Counter	5/29/08
490	PM-7	4/23/09
377	PCM-2	3/25/09
12104	Tele Pole FH 40 G	3/07/09
361	Tele Pole FHZ 612	3/31/09
212	Model E-140	1/13/09

CONDITION REPORTS

2007-03057	2007-03094	2007-03715	2007-04367	2007-04782
2007-04823	2007-05568	2007-06728	2007-06793	2007-06858
2007-06918	2008-00089	2008-00561	2008-03003	2008-03191
2008-04194	2008-05205	2008-07403	2008-08010	2009-00082
2009-02280	2009-03561			

**Section 2PS1: Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems**

AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>
QA Audit 07-07	Effluent and Environmental Monitoring

NUCLEAR PROCUREMENT ISSUES COMMITTEE (NUPIC) AUDITS

<u>NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
Audit 18899	Joint Audit of Eberline Services	1/18/05 – 1/21/05
Audit 20110	Teledyne Brown Eng. Environmental Services	9/29/08 – 10/02/08
Audit 20104	Southwest Research Institute	12/01/08 – 12/05/08
Audit 20117	Eckertt & Ziegler Analytics	3/31/08 – 4/04/08

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
8.4	Routine Sampling and Sample Valve Control	27
8.5.2.1	Canberra System Operation	10
8.5.2.2	Canberra Apex System Operation	0
8.8ERP	Particulate and Iodine Sample Collection	3
8.8RW	Particulate and Iodine Sample Collection for Radwaste Building Effluent	3
8.8TB	Particulate and Iodine Sample Collection for Turbine Building Effluent	3
8.815	Noble Gas Sample Collection for Effluent Monitors and Drywell Air Monitor	5
8.11.1	Effects Program	15

CONDITION REPORTS

2008-1106	2008-1116	2008-1126	2008-1453	2008-1938
2008-2528	2008-2529	2008-2901	2008-3004	2008-3191
2008-4413	2008-5982	2008-7692		

EFFLUENT MONITOR SURVEILLANCES

<u>CHANNEL NUMBER</u>	<u>MONITOR DESCRIPTION</u>	<u>SURVEILLANCE PROCEDURE</u>	<u>DATE</u>
RMP-RM-3A/B	Elevated Release Point Kaman Monitor Channel Calibration	6.PRM.310	3/03/2009
RMP-RM-354	Liquid Radwaste Effluent System Channel Calibration	6.PRM.308	2/26/2009
RMP-RM-3A/B	Elevated Release Point Kaman Monitor Functional Test	6.PRM.309	4/11/2009
RW-FIT-485/442	Liquid Radwaste Effluent Flow Monitor Channel Functional Test	6.PRM.706	2/26/2009

SURVEILLANCES

<u>SYSTEM</u>	<u>DATE</u>
Standby Gas Treatment – B	4/2008
Control Room Emergency	10/2008

RELEASE PERMITS

2008-01 – 2008-07

MISCELLANEOUS

2007 and 2008 Annual Radioactive Effluent Release Reports  
Change Evaluation Document 6015501 – Kaman Radiation Monitor Upgrades

**Section 2PS2: Radioactive Material Processing and Transportation**

**PROCEDURES**

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
9.RW.1	Radioactive Shipments	21
9.RW.2	Condensate Waste Resins, Spent Resins, RWCU Resins, and Waste Sludge Classification and Listings	10
9.RW.3	Dry Radioactive Waste Classification/Listing and Radioactive	3
9.RW.7	Waste Stream Sampling	11
9.RW.8	Inspection of On-site LLRW Storage	2

**RADIOACTIVE WASTE SHIPMENTS**

2007-06A	2007-07L	2007-07N	2007-08	2007-10B
2008-01	2008-03	2008-04Y	2008-04Z	2009-01
2009-06	2009-08			

**CONDITION REPORTS**

2007-03209	2007-03476	2008-04811	2008-05621	2008-05622
2008-05623	2008-05625	2008-05626	2008-05850	2009-00264

**AUDITS, SELF ASSESSMENTS AND SURVEILLANCES**

<u>NUMBER</u>	<u>TITLE</u>
19854	2007 NUPIC Audit Eberline Services, Richmond CA Laboratory
QAD 2007017	Radiological Effluents
QAD 2008055	Radiological Material Processing and Shipping

**MISCELLANEOUS DOCUMENTS**

<u>TITLE</u>
Cooper Nuclear Station Process Control Program
2007-2008 Waste Stream Sample Results
2007-2008 SCBA Functional Tests
49 CFR 172 Training Plan

**Section 2PS3: Radiological Environmental Monitoring Program and Radioactive Material Control Program**

**PROCEDURES**

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
0.10	Operating Experience Program	20
8.ENV.1	CNS Radiological Environmental Monitoring Program Administration	1
8.ENV.2	Sampling Manual for CNS Radiological Environmental Monitoring Program	0
8.ENV.3	Action Levels for Environmental Samples	0
8.ENV.4	CNS Air Pump Calibration and Maintenance	0
8.ENV.5	Annual Review of Broadleaf Sample Locations Procedure	0

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
8.ENV.6	CNS Annual Land Use Census	0
9.RADOP.10	Radioactive Sources Control and Accountability	16
14.MET.301	Meteorological Maintenance for 10-Meter Tower	3
14.MET.302	Meteorological Maintenance for 100-Meter Tower	2
14.MET.303	Meteorological Maintenance for 100-Meter Tower	4

CONDITION REPORTS

2007-07642            2009-03808

AUDITS, SELF-ASSESSMENTS, AND SURVEILLANCES

<u>NUMBER</u>	<u>TITLE</u>
NUPIC Audit No. 20110	Teledyne Brown Engineering –Environmental Services, October 2008
Quality Assurance	Radiological Effluent Audit, April 2007

MISCELLANEOUS DOCUMENTS

2007 and 2008 Environmental Assessment  
2007 and 2008 Interlaboratory Comparison Results  
2008 Calibration Records for Environmental Air Samplers  
2007 and 2008 Annual Radiological Environmental Monitoring Reports  
2008 Land Use Census/Potable Water Use

**Section 40A5 Temporary Instruction 2515/173**

PROCEDURES

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION</u>
EN-CY-108	Monitoring of Nonradioactive Systems	0
EN-CY-109	Sampling and Analysis of Groundwater Monitoring Wells	9
EN-CY-113	Response to Contaminated Spill/Leaks	3
EN-DC-343	Buried Piping and Tanks inspection and Monitoring Program	1
8.ENV.9	Ground Water Sampling Monitoring	0

CONDITION REPORTS

2009-00186            2009-03669            2009-03670            2009-03671

MISCELLANEOUS DOCUMENTS

Nebraska Public Power District - Cooper Nuclear Energy Institute 07-07 Self –  
Assessment, dated May 2009  
Hydrologic Investigation Work Plan, dated November 2007  
Storm Drain Sample Analysis 2007 -2008