



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

October 30, 2020

Mr. Tom Simril
Site Vice-President
Duke Energy Carolinas, LLC
4800 Concord Rd.
York, SC 29732-9745

SUBJECT: CATAWBA NUCLEAR STATION – INTEGRATED INSPECTION REPORT
05000413/2020003 AND 05000414/2020003, 07200045/2020002

Dear Mr. Simril:

On September 30, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Catawba Nuclear Station. On October 28, 2020, the NRC inspectors discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Jared H. Nadel, Acting Chief
Reactor Projects Br #1
Div of Reactor Projects

Docket Nos. 05000413, 05000414 and 07200045
License Nos. NPF-35 and NPF-52

Enclosure:
As stated

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05000413/2020003, 05000414/2020003 AND 07200045/2020002
dated October 30, 2020

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ADAMS ACCESSION NUMBER: ML20304A177

OFFICE	RIIDRP	RIIDRP	RIIDRP	RIIDRP
NAME	J. Austin/ JDA	C. Scott/ CBS	J. Worosilo/ JGW1	J. Nadel
DATE	10/28/2020	10/29/2020	10/29/2020	10/30/2020

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 05000413 and 05000414

License Numbers: NPF-35 and NPF-52

Report Numbers: 05000413/2020003, 05000414/2020003, and 07200045/2020002

Enterprise Identifier: I-2020-003-0052, I-2020-002-0081

Licensee: Duke Energy Carolinas, LLC

Facility: Catawba Nuclear Station

Location: York, SC

Inspection Dates: July 01, 2020 to September 30, 2020

Inspectors: J. Austin, Senior Resident Inspector
M. Bates, Senior Operations Engineer
C. Dykes, Health Physicist
W. Monk, Senior Reactor Inspector
J. Montgomery, Senior Reactor Inspector
A. Nielsen, Senior Health Physicist
J. Rivera, Health Physicist
A. Ruh, Senior Resident Inspector
C. Scott, Resident Inspector

Approved By: Jared H. Nadel, Acting Chief
Reactor Projects Br #1
Div of Reactor Projects

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at Catawba Nuclear Station, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

PLANT STATUS

Unit 1 operated began the inspection period at 100 percent rated thermal power (RTP) until a reactor trip on September 8, 2020. The unit returned to 100 percent RTP on September 10, 2020 and stayed there for the remainder of the inspection period.

Unit 2 operated at or near 100 percent rated thermal power for the entire inspection period.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards. Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), resident and regional inspectors were directed to begin telework and to remotely access licensee information using available technology. During this time the resident inspectors performed periodic site visits each week, increasing the amount of time on site as local COVID-19 conditions permitted. As part of their onsite activities, resident inspectors conducted plant status activities as described in IMC 2515, Appendix D; observed risk significant activities; and completed on site portions of IPs. In addition, resident and regional baseline inspections were evaluated to determine if all or portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

REACTOR SAFETY

71111.04 - Equipment Alignment

Partial Walkdown Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Service water structure and emergency supplemental power system (ESPS) while the 2B emergency diesel generator (EDG) was out of service (OOS) for its voltage regulator replacement on July 21, 2020
- (2) Unit 1 and Unit 2 station blackout (SBO) switchgear on September 21, 2020
- (3) Unit 1 A and B main feedwater pumps on September 21, 2020

71111.05 - Fire Protection

Fire Area Walkdown and Inspection Sample (IP Section 03.01) (6 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) 2A EDG room, fire area 43, on July 16, 2020
- (2) Unit 2 exterior doghouse, fire area 51, on September 23, 2020
- (3) Unit 1 and Unit 2 control room, fire area 21 and 35, on September 23, 2020
- (4) 1B EDG room, fire area 26, on September 30, 2020
- (5) Unit 1 B train essential switchgear room, Elevation 560, fire area 8, on September 30, 2020
- (6) Unit 2 B train essential switchgear room, Elevation 560, fire area 7, on September 30, 2020

71111.07A - Heat Sink Performance

Annual Review (IP Section 03.01) (1 Sample)

The inspectors evaluated readiness and performance of:

- (1) The inspectors evaluated readiness and performance of: Unit 1 B diesel generator jacket water heat exchanger on September 30, 2020.

71111.11B - Licensed Operator Requalification Program and Licensed Operator Performance

Licensed Operator Requalification Program (IP Section 03.04) (1 Sample)

The inspectors completed an inspection to verify the licensee's ability to evaluate the performance of their licensed operators during the conduct of examinations, to assess their ability to properly develop and administer requalification annual operating tests and biennial written examinations, to evaluate the performance of the control room simulator and their testing and maintenance of the simulator, to ensure that licensed individuals satisfy the conditions of their licenses, and to assess their effectiveness in ensuring that operator license conditions are satisfied.

(1) Biennial Requalification Written Examinations

The inspectors evaluated the quality of the licensed operator biennial requalification written examination administered on August 14, 2020.

Annual Requalification Operating Tests

The inspectors evaluated the adequacy of the facility licensee's annual requalification operating test.

Administration of an Annual Requalification Operating Test

The inspectors evaluated the effectiveness of the facility licensee in administering

requalification operating tests required by 10 CFR 55.59(a)(2) and that the facility licensee is effectively evaluating their licensed operators for mastery of training objectives.

Requalification Examination Security

The inspectors evaluated the ability of the facility licensee to safeguard examination material, such that the examination is not compromised.

Remedial Training and Re-examinations

The inspectors evaluated the effectiveness of remedial training conducted by the licensee, and reviewed the adequacy of re-examinations for licensed operators who did not pass a required requalification examination.

Operator License Conditions

The inspectors evaluated the licensee's program for ensuring that licensed operators meet the conditions of their licenses.

Control Room Simulator

The inspectors evaluated the adequacy of the facility licensee's control room simulator in modeling the actual plant, and for meeting the requirements contained in 10 CFR 55.46.

71111.11Q - Licensed Operator Requalification Program and Licensed Operator Performance

Licensed Operator Performance in the Actual Plant/Main Control Room (IP Section 03.01) (1 Sample)

- (1) The inspectors observed operator performance following a temperature transient on containment chilled water (YV) chiller Unit 1 on July 2, 2020.

Licensed Operator Requalification Training/Examinations (IP Section 03.02) (1 Sample)

- (1) The inspectors observed a simulator scenario recorded on July 16, 2020, which contained a loss of component cooling water (CCW), containment pressure transmitter failure high, loss of load and turbine runback followed by an inadvertent safety injection and reactor trip.

71111.12 - Maintenance Effectiveness

Maintenance Effectiveness (IP Section 03.01) (5 Samples)

The inspectors evaluated the effectiveness of maintenance to ensure the following structures, systems, and components (SSCs) remain capable of performing their intended function:

- (1) Condition Report (CR) 2338580 E, Instrument air (VI) instrument compressor high vibrations emergent issue on July 8, 2020

- (2) CR 2338715, Unit 1 turbine driven auxiliary feed pump tempering steam check valve leak by on July 9, 2020
- (3) CR 2341433, 1B auxiliary feedwater pump discharge check valve failed stroke time on July 29, 2020
- (4) CR 2341866, Drop in pressure of the "A" waste gas decay tank pressure on July 31, 2020
- (5) CR 2346026, Reactor water storage tank level transmitter (1FWLT5130) out of calibration on August 26, 2020

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management Sample (IP Section 03.01) (4 Samples)

The inspectors evaluated the accuracy and completeness of risk assessments for the following planned and emergent work activities to ensure configuration changes and appropriate work controls were addressed;

- (1) CR 2339246, Abnormal operating procedure entered on Unit 1 due to feedwater controller failing to manual on July 14, 2020
- (2) Yellow grid risk while the 1A EDG was out of service for maintenance on July 28, 2020
- (3) Safe shutdown facility (SSF) out of service for maintenance on August 18, 2020
- (4) Protected equipment plan following Unit 1 reactor trip on September 8, 2020

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (5 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) CR 2338715, Unit 1 turbine driven auxiliary feedwater pump tempering steam check valve (1CA-186) not seated on July 9, 2020
- (2) CR 2340593, 2B EDG pedestal bearing low resistance following maintenance on July 23, 2020
- (3) CR 2342955, Meteorological tower non-functional on August 8, 2020
- (4) CR 2337951, Throttling U-1 to reactor coolant pumps component cooling flow on August 24, 2020
- (5) CR 2346281, 1B safety injection pump low oil pressure on August 28, 2020

71111.18 - Plant Modifications

Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (1 Sample)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Engineering change (EC) 418187- Temporary change to repair leak on 2NV271 on September 17, 2020

71111.19 - Post-Maintenance Testing

Post-Maintenance Test Sample (IP Section 03.01) (5 Samples)

The inspectors evaluated the following post maintenance test activities to verify system operability and functionality:

- (1) Functional testing of the 2A EDG following maintenance on the lube oil system, on July 8, 2020
- (2) Functional testing of the Unit 2 component cooling (KC) pumps A1 and A2 following preventive maintenance, on July 15, 2020
- (3) Work Order (WO) 20122146-46, Perform post maintenance test per PT/1/A/4350/012 A DG 1A governor and voltage regulator test following replacement, on August 15, 2020
- (4) WO 20417931, Functional test of 1B1 component cooling water pump following preventive maintenance, on August 26, 2020
- (5) WO 20325390, Retest per PT/1/A/4200/005 B, safety injection performance 1B performance test following PMs, on August 27, 2020

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (3 Samples)

- (1) PT 2/A/4350/002 C, Available power source operability check, on July 20, 2020
- (2) PT/1/A/4200/10 B, Residual heat removal 1B performance test, on September 3, 2020
- (3) PT/1/A/ 4250/003 C, Turbine driven auxiliary feedwater pump #1 performance test, on September 11, 2020

Inservice Testing (IP Section 03.01) (1 Sample)

- (1) PT/0/A/4400/022A, Nuclear service water pump train A performance test, on August 21, 2020

FLEX Testing (IP Section 03.02) (1 Sample)

- (1) Work order (WO) 2040196, Reviewed results of quarterly FLEX equipment inspection conducted, on August 11, 2020

71114.06 - Drill Evaluation

Drill/Training Evolution Observation (IP Section 03.02) (1 Sample)

- (1) The inspectors observed an emergency preparedness exercise on August 13, 2020. The scenario involved an earthquake on site followed by lowering the spent fuel pool level and the declaration of an Alert.

RADIATION SAFETY

71124.01 - Radiological Hazard Assessment and Exposure Controls

Radiological Hazard Assessment (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated how the licensee identifies the magnitude and extent of radiation levels and the concentrations and quantities of radioactive materials and how the licensee assesses radiological hazards.

Instructions to Workers (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated radiological protection-related instructions to plant workers.

Contamination and Radioactive Material Control (IP Section 03.03) (3 Samples)

The inspectors evaluated licensee processes for monitoring and controlling contamination and radioactive material.

- (1) Observed the licensee perform surveys of potentially contaminated equipment leaving the radiologically controlled area (RCA).
- (2) Observed workers exiting the RCA during normal at-power operations for Unit 1 and Unit 2.
- (3) Observed the licensee implement their process for evaluation of a worker that alarmed a personnel contamination monitor (PCM) at the RCA exit point.

Radiological Hazards Control and Work Coverage (IP Section 03.04)

There were no radiological work activities available to observe during the inspection.

High Radiation Area and Very High Radiation Area Controls (IP Section 03.05) (5 Samples)

The inspectors evaluated licensee controls of the following High Radiation Areas and Very High Radiation Areas:

- (1) Auxiliary Building Dry Active Waste and Storage Area.
- (2) Unit 1 Waste Evaporator Feed Tank Room.
- (3) Unit 1 Letdown Heat Exchanger Room.
- (4) Units 1 and 2 Auxiliary Building Valve Gallery.
- (5) Units 1 and 2 Spent Fuel Pool Demineralizer Room.

Radiation Worker Performance and Radiation Protection Technician Proficiency (IP Section 03.06) (1 Sample)

- (1) Observed a radiation protection technician perform routine radiological surveys in Units 1 and 2 Cable Tray Access Rooms 322 and 334, Auxiliary Building Pipe Chase Room 333, and Auxiliary Building Room 323 (opening to Mechanical Penetration Room 308 that is posted as a High Radiation Area).

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

Permanent Ventilation Systems (IP Section 03.01) (1 Sample)

The inspectors evaluated the configuration of the following permanently installed ventilation systems:

- (1) Main Control Room filtered ventilation.

Temporary Ventilation Systems (IP Section 03.02) (1 Sample)

The inspectors evaluated the configuration of the following temporary ventilation systems:

- (1) HEPA units used during the C1R25 refueling outage.

Use of Respiratory Protection Devices (IP Section 03.03) (1 Sample)

- (1) The inspectors evaluated the licensee's use of respiratory protection devices.

Self-Contained Breathing Apparatus for Emergency Use (IP Section 03.04) (1 Sample)

- (1) The inspectors evaluated the licensee's use and maintenance of self-contained breathing apparatuses.

71124.04 - Occupational Dose Assessment

Source Term Characterization (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated licensee performance as it pertains to radioactive source term characterization.

External Dosimetry (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated licensee performance as it pertains to external dosimetry that is used to assign occupational dose.

Internal Dosimetry (IP Section 03.03) (1 Sample)

The inspectors evaluated the following internal dose assessments for actual internal exposures:

- (1) Assessment for individual with facial contamination after object came in contact with face while working in U2 Upper Containment. PCE-18-006, AD-RP-ALL-4010, 04/12/2018

Special Dosimetric Situations (IP Section 03.04) (1 Sample)

The inspectors evaluated the following special dosimetric situations:

- (1) Dose assessment for three declared pregnant workers.

71124.05 - Radiation Monitoring Instrumentation

Walkdowns and Observations (IP Section 03.01) (7 Samples)

The inspectors evaluated the following radiation detection instrumentation during plant walkdowns:

- (1) Area Radiation Monitors in the Auxiliary Building.
- (2) Portable ion chambers stored 'ready for use'.
- (3) Portable telescoping GM detectors stored 'ready for use'.
- (4) Portable neutron detectors stored 'ready for use'.
- (5) RCA exit point personnel contamination monitors.
- (6) RCA exit point tool monitors.
- (7) RCA exit point portal monitors.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

IE03: Unplanned Power Changes per 7000 Critical Hours Sample (IP Section 02.02) (2 Samples)

- (1) Unit 1 submittals listed for the period from July 1, 2019 through June 30, 2020
- (2) Unit 2 submittals listed for the period from July 1, 2019 through June 30, 2020

MS09: Residual Heat Removal Systems (IP Section 02.08) (2 Samples)

- (1) Unit 1 submittals listed for the period from July 1, 2019 through June 30, 2020
- (2) Unit 2 submittals listed for the period from July 1, 2019 through June 30, 2020

PR01: Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual Radiological Effluent Occurrences (RETS/ODCM) Radiological Effluent Occurrences Sample (IP Section 02.16) (1 Partial)

- (1) (Partial)
08/30/2020–09/18/2020

71152 - Problem Identification and Resolution

Annual Follow-up of Selected Issues (IP Section 02.03) (2 Samples)

The inspectors reviewed the licensee's implementation of its corrective action program related to the following issues:

- (1) CR 2343000, Earthquake felt onsite on August 9, 2020
- (2) CR 2326840, EBOP/ESOP unfused control circuits on September 30, 2020

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

60855.1 - Operation of an Independent Spent Fuel Storage Installation at Operating Plants

Operation of an Independent Spent Fuel Storage Installation at Operating Plants (1 Sample)

- (1) The inspectors evaluated the licensee's activities related to long-term operation and monitoring of their independent spent fuel storage installation and observed cask number VCC 96 moved from the auxiliary building to the ISFSI pad on August 21, 2020.

92723 - Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12 Month Period

As noted in Inspection Reports 05000413/414/2019002, and 05000413/414/2019003, the inspectors reviewed the licensee's actions to address the following traditional enforcement violations:

1. NOV 0500413/414/2019002-01, Failure to Report the Loss of Emergency Assessment Capability of the Technical Support Center within Eight Hours
2. NOV 05000413/2019002-04, Failure to Provide Complete and Accurate Information in Licensee Event Report (LER)
3. NCV 05000414/2019003-03, Failure to take Technical Specification Actions with Two Trains of Component Cooling Inoperable and Failure to Submit an Associated 8-hour NRC Report

Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12 Month Period (1 Sample)

- (1) The inspector evaluated the licensee's flex cause evaluation in NCR 2305584 and the corrective actions associated with the Severity Level IV (SL IV) violations. The inspector's review included but were not limited to: 1) assurance that the causes of the violations were understood, 2) that the extent of condition and extent of cause for the violations were identified, and 3) that both completed and proposed corrective actions for the violations were appropriate and sufficient to address the causes

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On October 28, 2020, the inspectors presented the integrated inspection results to Tom Simril and other members of the licensee staff.
- On August 25, 2020, the inspectors presented the IP 92723 inspection results to Tom Simril and other members of the licensee staff.
- On September 3, 2020, the inspectors presented the Licensed Operator Requalification Program inspection results to Tom Simril, Site Vice President and other members of the licensee staff.

- On September 18, 2020, the inspectors presented the RP inspection exit inspection results to Tom Simril and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71124.01	Procedures	AD-RP-ALL-0007	Control of Radioactive Material	Rev. 2
	Radiation Surveys	CNS-20200908-1	Room 240 Centrifugal Charging Pump 2A	09/08/2020
		CNS-M-20200815-1	ISFSI / ISFSI Yard	08/15/2020
		CNS-M-20200916-10	Aux Building, 560 Elevation, Room 333	09/16/2020
		CNS-M-20200916-8	Aux Building, 560 Elevation, Room 322 & 334	09/16/2020
		CNS-M-20200916-9	Aux Building, 560 Elevation, Room 323	09/16/2020
	Radiation Work Permits (RWPs)	RWP # 15	Radiation Protection Activities	Rev. 30
		RWP # 18	Miscellaneous Valve Maintenance Activities	Rev. 30
RWP # 2		Entry for Routine Surveillance	Rev. 39	
71124.03	Calculations	AD-RP-ALL-2009	TEDE-ALARA Evaluations and DAC-Hour Tracking	09/17/2020
		CNC-1227-00-00-0106	Radiological Consequences of a DB LOCA at Catawba Nuclear Station	Revision 18
	Corrective Action Documents Resulting from Inspection	AR 02349165		09/17/2020
	Miscellaneous	AD-RP-ALL-0006	Personnel Contamination Event Log	06/18/2018; 12/03/2018
71124.04	Radiation Surveys	Form 18575	Catawba Nuclear Station Sample Requisition	02/24/2020
71124.05	Corrective Action Documents Resulting from Inspection	CR 02348779		
	Procedures	AD-RP-ALL-7006	Radiation Protection Fixed Contamination Monitor Source Response Check	Revision 0
71151	Miscellaneous		Gamma Spectrum Analysis - CN20090700003; CN200914000002;	08/31/2020; 09/13/2020
92723	Calculations	CNC-1223.42-00-0089	Evaluation of Doghouse Flood on Motor Driven CA pump Operability	1
	Corrective Action Documents	2304703, 2305584, 2313601, 2313603,		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		2280660, 2287724, 2287546, 2275149, 2273289		
	Corrective Action Documents Resulting from Inspection	2345787		
	Miscellaneous	CNS-1565.WL-00-0001	Design Basis Documentation for the Liquid Waste System	41
		CNS-1592.CA-00-0001	Auxiliary Feedwater System (CA) Design Basis Specification	47
		Current Licensing Basis Refresher, 2020 Cycle 1, Engineering Continuing Training		
		Reply to Notice of Violation – NRC Inspection Report 05000413/2019002-04		09/12/2019
		Reply to Notice of Violation – NRC Inspection Report 05000413/414/2019002-01		09/12/2019
	Procedures	AD-LS-ALL-0006	Notification/Reportability Evaluation	3
		AD-LS-ALL-0016	Licensee Event Reports (LERS)	3
		OMP 2-29	LCO Tracking	67
		OP/1/B/6100/010 F	Annunciator Response for Panel 1AD-5	58
		OP/2/A/6400/005	Component Cooling System	97
		OP/2/B/6100/010 F	Annunciator Response for Panel 2AD-5	42
		PT/1/A/4700/020	WL/WN Sump Pumps and Check Valves Inservice Test	15
	Work Orders	20288398, 20300374		