

# UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 101 MARIETTA STREET, N.W. ATLANTA, GEORGIA 30323

Report Nos.: 50-335/91-24 and 50-389/91-24

Licensee: Florida Power and Light Company

9250 West Flagler Street

Miami, FL 33102

Docket Nos.: 50-335 and 50-389

License Nos.: DPR-67 and NPF-16

Facility Name: St. Lucie 1 and 2

Inspection Conducted: December 2-6, 1991

Inspector:

Date Signed

Date Signed

Approved by: 1/6/92

J. O. Blake, Chief Materials and Processes Section

Engineering Branch

Division of Reactor Safety

SUMMARY.

#### Scope:

This routine, unannounced inspection was conducted in the areas of inservice inspection - data review and evaluation and review of nondestructive examination procedures, review of radiographic film for safety related welding, and review of Florida Power and Light (FP&L) long-term erosion/corrosion program (Generic Letter 89-08).

#### Results: .

In the areas inspected, one violation was identified: 50-335/91-24-01, "Failure to Follow Procedure for Properly Identifying Radiographic Film and Documentation of Associated Records", paragraph 5. No deviations were identified. Licensee management involvement and the licensees technical staff assure that technical issues are resolved for a conservative standpoint. The licensee appears to be very sensitive to NRC initiatives and their responses to these initiatives have good technical basis, inservice inspection (ISI) and erosion/corrosion (E/C) records were excellent and indicated that the nondestructive examinations (NDE) have been conservatively performed.

#### REPORT DETAILS

#### Persons Contacted

Licensee Employees

\*G. Alexander, ISI Specialist

\*G. Boissy, Plant Manager

\*F. Carr, Supervisor of Inspections

\*K. Crosby, Supervisor, Quality Control (QC)
\*B. Dawson, Maintenance Manager

\*J. Dyer, Supervisor Maintenance (QC)

\*E. Englmeier, Site Quality Manager

\*J. Geiger, Vice President, Nuclear Assurance

\*T. Geiseinger, Construction QC Supervisor

\*K. Mayhew, ISI Coordinator

\*L. McLaughlin, Plant Licensing, Manager

\*L. Rogers, Electrical Maintenance Supervisor

\*D. Sager, Plant Vice President

\*D. West, Technical Department Supervisor

Other licensee employees contacted during this inspection included engineers, technicians, and administrative personnel.

NRC Resident Inspector

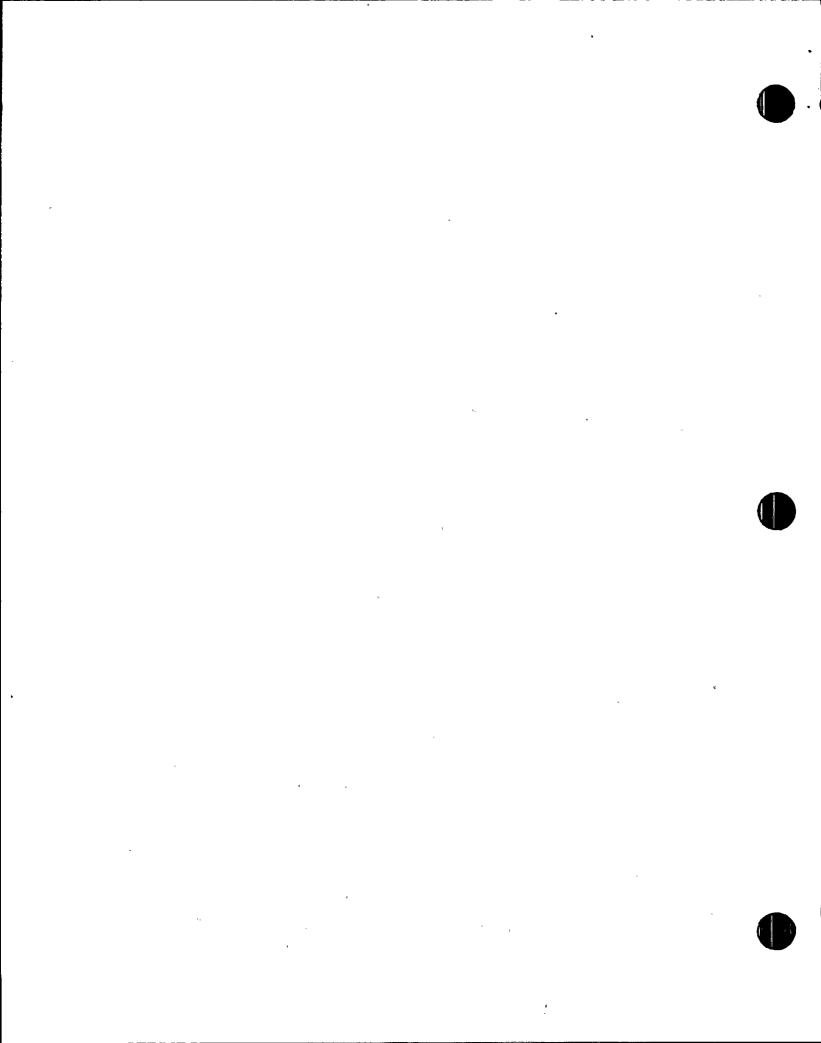
.\*M. Scott

\*Attended exit interview

2. ISI Data Review and Evaluation Unit 1 (73755)

The inspector reviewed the records described below to determine whether the reported data covered the scope of the examinations required during the current inspection period of the inspection interval as described in the applicable ASME Code and the inservice inspection program accepted by the NRC. In addition, the records were reviewed to ascertain whether the ISI data files were complete and the data were within the previously established acceptance criteria, and to determine whether the license' disposition of adverse findings and subsequent re-examinations were consistent with regulatory requirements.

St. Lucie Unit 1 is presently in the first refueling outage, of the second period, of the second ISI interval. The second interval began February 11, 1988 and will end on February 10, 1998. The applicable code for this inspection interval is American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, 1983 edition with addenda through Summer 1983. Ebasco Services Inc. provided the qualified examination personnel to conduct the NDE services.



In order to perform the review of the ISI records the inspector had to review the following programmatic documents: FP&L's ISI current Outage Plan (Document No. ISI-PSL-100-40-2) for Unit 1, the long term (10-year) Inservice Inspection Plan (ISI-PSL-100-Rev. 3), Relief Request, the licensee implementation of Code Case 408, "Alternative Rules for Examination of Class 2 Piping", and Combustion Engineering's (CE) Document No. CE-NPDS-579 (Combustion Engineering Owners Group Task #626 dated 1990) "Evaluation of Thermal Stresses in Piping Connected to CE Designed Reactor Coolant Systems in Response to NRC Bulletin 88-08 Supplement 3". The inspector also held discussions and reviewed data with the ISI specialist concerning the implementation and status of augmented examinations.

The records listed below for the various NDE methods were reviewed to determine whether the records contained or provided reference to the following documents.

- \* Examination results and data sheets
- \* Examination equipment data
- \* Calibration data sheets
- \* Examination evaluation data
- \* Records on extent of examination
- \* Records on deviation from program and procedures including justification for deviation
- \* Records and disposition of findings
- Re-examination data after repairwork
- \* Identification of NDE materials such a penetrant, penetrant cleaner, couplant, films, tapes, etc.

In addition, the records were reviewed technically for the following:

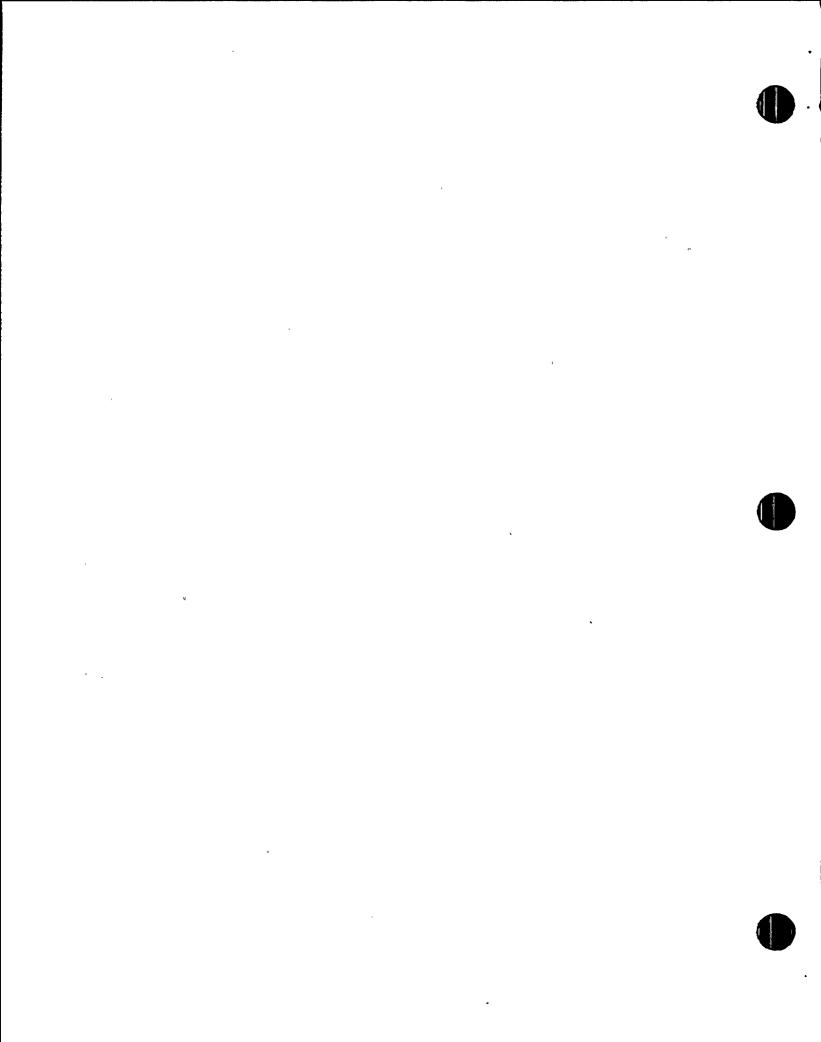
The method, extent, and technique of examination comply with the licensee's ISI program and applicable NDE procedure.

The examination data are within the acceptance criteria as outlined in the applicable NDE procedure and applicable Code requirements.

The recording, evaluating, and dispositioning of findings are in compliance with the applicable NDE procedure and applicable Code requirements.

Inservice NDE results are compared with the recorded results of prior Section XI examinations.

The method used for NDE was sufficient to determine the full extent of the indication or acceptance.



## a. Visual Examination Data Reviewed

# VT-1 Examination Procedure NDE 4.1 Rev. 4

Data Sheet No.	<u>Isometric Drawing</u>	<u>System</u>
4.1.004	01-005	Pressurizer
* 4.1.005	01-005	Pressurizer
* Augmented inspe	ection on the header slee	ves
* 4.1.008	01-021A	Loop 1A2SI
* Augmented insp	ection on elbow between R	C-151-FW-1 and RC-151-1-SW-1
4.1.001	01-22A	Loop 1A2SI
* Augmented insp	ection on elbow between R	C-154-FW-1 and RC-154-1-SW-1
4.1.012	01-023	Loop 1B1SI
* Augmented insp RC-152-1-SW-2	ection on fitting between	RC-152-1-SW-1 and
4.1.021	01-038	Pressurizer Relief Line V-1402
4.1.027	01-113-B	Auxiliary Feedwater
4.1.023	01-039-A .	Combined SI Piping Loops 1A1 and 1A2
4.1.024	01-039-A	Combined SI Piping Loops 1A1 and 1A2
4.1.025	01-030-C ′	Combined SI Piping Loops 1A1 and 1A2
4.1.026	01-040-C	Combined SI Piping Loops 1A1 and 1B2

# VT-3 Examination Procedure NDE 4.3 Rev. 3

Date Sheet No.	<b>Examination Areas</b>		Comments
4.3.001	AK-01,02,03,040N-1EA,AND ON-1E-B	,	Reactor Vessel Internals
4.3.010	Mechanical and Welded Attachments		Pressurizer

Date Sheet No.	Examination Areas	Comments
4.3.015	Mechanical and Welded Attachment	Safety Injection
4,3.018	Safety Injection Restraint	SI-968-6212 .
4.3.027	Mechanical and Welded Attachments	CH-143-11
4.3.035	LPSI Pump 1A and 1B Discharge Support Base	SI-H-83
4.3.036	LPSI Pump 1A and 1B Rigid Sway Strut Assembly	SI-H-174A
4.3.039	LPSI Pump 1A and 1B Discharge Header Strut Assembly	SI <b>-</b> 678-32
4.3.054	Safety Injection Tank 1B1 Rigid Sway Support	SI-972-6242
4.3.056	HPSI Pump 1A to Header 1A Base Support	SI-H-172-V
4.3.057	HPSI Pump 1A to Header 1A Spring Can	SI-H-172
4.3.060	Main Steam/Spring Can	MSH-7A
4.3.064	LPSI/HPSI/CS Pumps Loop A Spring Hanger	SI-676-9405
4.3.068	HX1A To CS Header Rigid Sway Strut	CS-678-179
4.3.072	Shutdown Cooling HX1A Inlet Rigid Sway Strut	CC-20-1A
4.3.073	Shutdown Cooling HX1A Inlet Restraint	CC-20-4
4.3.077	Shutdown Cooling HX1A Inlet	CC-H-114
4.3.091	CCW Spring Support	YPH-181
4.3.099	Circulating Water Inlet/Rod and Clamp	YPH-7
4.3.106	Circulating Water Inlet/Box Restraint	ISH-10
4.3.108	Circulating Water Intake/Integral Attachment	ISH-17-1
4.3.113	Aux. Feedwater/Rigid Restraint	BF-1005-307

Date Sheet No. (cont'd)	Examination Areas	Comments
4.3.114	Aux. Feedwater/Sliding Base Support	BF-1005-557
4.3.121	Circulating Water Inlet/Rod and Clamp	YPH-7
4.3.127	Condensate - Suction to Aux. Feed/ Spring Base Assy	CH-143
4.3.131	CCW - Rigid Strut	CC-25-7A
4.3.132	Safety Injection Tank 1B1/Rigid. Sway Strut	SI-972-6243A
4.3.136	CCW - Rigid Sway Strut Assembly	1868-6224
4.3.145	CCW-Box Restraint	1868-6233
4.3.146	CCW-Rigid Sway Strut Assembly	CC184-6225

Records selected for review above were records primarily with documented inspection findings. The records included detail sketches or photographs of the discrepancies and these findings were documented on Customer Notification Reports (CNR's). The inspector reviewed the CNR's listed below for the above components to determine if the disposition of the discrepancies were adequate. The following visual examination NCR's were reviewed:

CNRs Reviewed	CNRs Reviewed	ŧ	CNRs Reviewed
91-1-045 91-1-025 91-1-029 91-1-057 91-1-030 91-1-028 YPH-181 YPH-7 BF-1005-307 CH-143 SI-972-6243A CC-1848-6225	91-1-024 91-1-040 91-1-043 91-1-042 91-1-041 91-1-CCH-114 ISH-10 ISH-17-1 91-1-031 CC-25-7A 1868-6224 1868-6233		91-1-023 91-1-058 91-1-067 91-1-075 91-1-076 91-1-077 91-1-079 91-1-021 91-1-022

#### b. Ultrasonic Examination Data Review

## Examination Procedure NDE 5.1 Rev. 6

Data Sheet No.	Weld ID	Component	Examination Scans
5.1.001	PRZ-L-3	Pressurizer	0°,45° and 60° S
5.1.001	PRZ-C-2	Pressurizer	0°,45° and 60° S

# Examination Procedure NDE 5.2. Rev. 5

Data Sheet No.	Weld ID	Component	<b>Examination</b>
5.2.001 5.2.002 5.3.003 5.2.004 5.2.005 5.2.006 5.2.007 5.2.008 5.2.008 5.2.008 5.2.008 5.2.009 5.2.010 5.2.011 5.2.012 5.2.012 5.2.014 5.2.014 5.2.014 5.2.015	MS-1-FW-1 MS-1-SW-18 MS-3-1-SW-18 MS-1-SW-1 MS-1-SW-P1-LS-A MS-1-FW-LS-A MS-29-1-SW-1-LS-A MS-29-1-SW-1-LS-A MS-29-FW-6-SR MS-29-FW-6-SR MS-29-FW-6-SR MS-29-FW-6 BF-14-FW-6 MS-29-FW-6 BF-14-SW-1 MS-28-1-SW-4-LR MS-28-1-SW-4-SR MS-28-1-FW-1-LS-A MS-33-FW-1	MS Line 1A1 MS Line 1A1 MS Line 1B1 MS Line 1A1 MS Line 1A1 MS Line 1A1 MS Line 1B1 MS Line 1A1	45° and 60° S
5.2.015 5.2.016 5.2.017	MS-33-FW-1-LS-A MS-29-1-SW-1 BF-14-FW-2	.Main Steam MS Line 1B1 Feedwater	45° and 60° S 45° and 60° S 45° and 60° S

# Examination Procedure NDE-5.3. Rev. 4

Data Sheet	No. Weld ID	Compone	nt <u>Exa</u>	<u>mination</u>
5.3.001 5.3.001 5.3.002 5.3.002 5.3.002 5.3.002 5.3.002 5.3.003 5.3.003	RC-115-6-503 RC-115-FW-3- RC-115-6-503 RC-115-6-503 RC-115-3-503 RC-115-3-503 RC-115-FW-1-14-1-112-B	-500F RC Loop	A 45° A 45° A 45° A 45° A 45° A 45°	RL -
		•		

## Examination Procedure NDE 5.4 Rev. 8

Data Sheet No.	Weld ID	Component	<b>Examination</b>
5.4.001	SI-113-FW-7	Loop 1A2-SI	45° and 60° RL
5.4.001	SI-113-6-SW-3	Loop 1A2-SI	45° and 60° RL
5.4.001	SI-113-6-SW-2	Loop 1A2-SI	45° and 60° RL

Data Sheet No. (cont'd)	Weld ID	Component	<u>Examination</u>
5.4.003 5.4.004 5.4.004	SI-113-11-SW-1 SI-113-FW-11A SI-113-FW-11	Loop 1A2-SI Loop 1B2-SI Loop 1B2-SI Loop 1B2-SI Loop 1B2-SI	45° and 60° RL
			45° and 60° S

The inspectors' reviewed of FP&L's NDE Procedure 5.4 Rev. 8 and the above examination records revealed that this licensee uses 45° and 60° refracted longitudinal wave transducers on all stainless steel piping welds. This inspection technique is the best method for ensuring 100% coverage and defect detection in austentic stainless steel. Licensee's normally do not perform 100% refracted longitudinal wave examination stainless steel using 45° and 60° transducers because refracted longitudinal wave transducers are difficult to use and require highly trained examiners to use them correctly. FP&L's commitment to safety and excellence over cost is typified by enhanced examination techniques such as this.

## c. Liquid Penetrant Examination Data Review

## Examination Procedure NDE 3.3. Rev. 3

Data Sheet No.	Weld ID
3.3.001	SI-131-SW-1
3.3.001	SI-131-SW-2
3.3.001	SI-215-SW-2
3.3.008	SI-213-FW-1
3.3.010	SI-213-FW-2
3.3.014	SI-151-FW-1
3.3.014	SI-131-SW-6
3.3.034	RC-154-FW-1
3.3.034	SI-149-FW-4
3.3.034	SI-149-3-SW-1

Data Sheet No. (cont'd)	Weld ID
	• •
3.3.034	SI-149-3-SW-2
3.3.043	SI-151-1-SW-9
3.3.050	SI-208-1-SW-2
3.3.053	SI-475-FW-7B
3.3.055	SI-406-FW-1

## d. Magnetic Particle Examination Data Review

## Examination Procedure NDE 2.2 Rev. 3

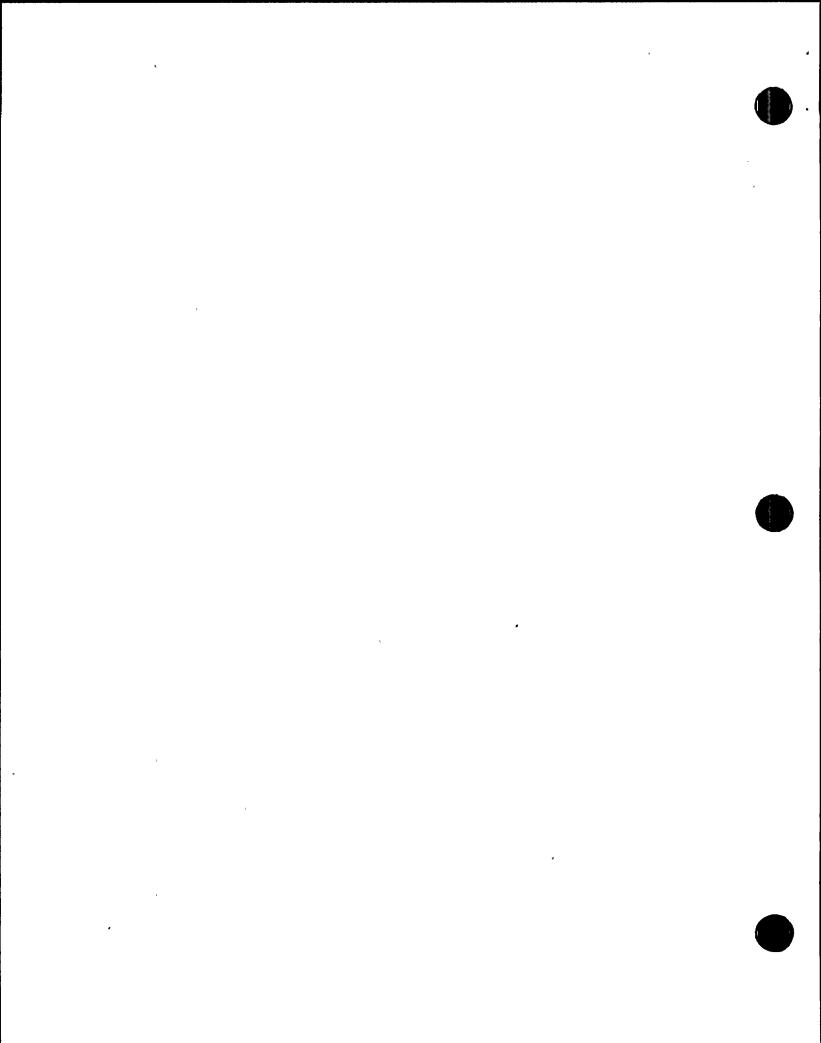
Data Sheet No.	<u>Weld ID</u>	Component
2.2.004	1A-1-112-B	Reactor Coolant Piping
2.2.006	MS-28-5-SW-1	Main Steam Loop 1A1
2.2.012	BF-14-1-SW-2	Main Feedwater To SG
2.2.013	BF-14-2-SW-1	Feedwater To SG 1A1

The data reviewed for each of the above NDE methods revealed that FP&L has a very technical competent and conservative ISI program. Documentation provided for the above examinations was excellent.

Certification records for the examiners listed below, who had been utilized for the above examinations, were reviewed by the inspector and found to be satisfactory:

Fhasco	Services	Inc.	Examiners	Certifications
LDasco	261 4 1763	1110	LAGIIIIICI	

					<del></del>
Name .	<u>UT</u> ·	PT	<u>MT</u>	<u>vT</u>	Eye Test Date
R. B M. B. B. B. S. C. P. K. C. L. R. L. D. M. P. N. C. P. R. V.	II II II II II II II III	II II II II II III III III	NA NA II II II II II III	II NA NA NA II VT-1 II II VT-1 II	9/10/91 9/16/91 1/30/91 2/5/91 3/20/91 10/22/91 1/11/91 10/31/91 9/22/91 9/17/91 9/16/91
FP&L Examiner Certifications					
F. C. W. M. D. N. C. R.	III III III	III III II	III NA NA II	NA NA III II	6/12/91 2/01/91 3/27/91 3/27/91



Within the areas inspected, no violations or deviations were identified.

## 3. Review of ISI Procedures - Unit 1 (73755)

The inspector reviewed the recently revised procedures listed below to ascertain whether the procedures adequately implemented the requirements of the 1983 ASME Code with addenda through Summer 1983 which is required for 2nd Interval ISI examinations on Unit 1. The following procedures were also reviewed to ensure that they adequately covered all required aspects of the approved ISI program, including licensee commitments to perform certain augmented inspections, proper approvals, adequate record retention, qualification of NDE examination personnel, technical content, and methods of recording, evaluating and dispositioning findings:

Procedure No. and Revision	Title of Procedure
NDE-2.2 Rev. 3	Magnetic Particle Examination
NDE-3.3 Rev. 3	Liquid Penetrant Examination Using the Solvent Removal Visible Dye Technique
NDE-5.4 Rev. 8	Ultrasonic Examination of Austenitic Piping Welds
NDE-5.2 Rev. 5	Ultrasonic Examination of Ferritic Piping Welds
NDE-5.1 Rev. 6	Ultrasonic Examination of Pressure Vessel Welds, Except Reactor Vessels
NDE-4.3 Rev. 3	Visual Examination VT-3/VT-4
NDE~4.1 Rev. 4	Visual Examination VT-1: Welds/Bolting/ Bushing/Washers
NDE-5.3 Rev. 4	Ultrasonic Examination of Primary Coolant Piping Welds
NDE-5.16 Rev. 3	Ultrasonic Examination Technique for the Evaluation of Cracking in Feedwater Piping (NRC Bulletin 79-13)
NDE-5.11 Rev. 4	Ultrasonic Examination of Dissimilar Metal Piping Welds
NDE-5.12 Rev. 3	Manual Ultrasonic Examination of Reactor Vessel Flange to Shell and Stud Hole Threads (Reg. Guide 1.150 implemented)

# Procedure No. and Revision (cont'd)

#### Title of Procedure

NDE-5.13 Rev. 4

Ultrasonic Examination of Nozzle Inner Radius Areas

NDE-5.18 Rev. 3

. Ultrasonic Thickness Measurements

Within the areas examined, no violation or deviation was identified.

4. Review and Evaluation of FP&L's Long Term Erosion/Corrosion (E/C) Program
For Unit-1 (NRC Generic Letter 89-08) (92701)

#### Background

On May 2, 1989, NRC issued Generic Letter 89-08 which requested that licensees provided assurances that a long term erosion/corrosion monitoring program, consisting of systematic measures to ensure erosion/corrosion does not lead to degradation of single phase and two phase high energy carbon steel systems.

FP&L has had a long established two-phase wall thinning inspection program and single phase inspections began immediately at their Turkey Point Plant following the 1986 Surry 2 event. NRC staff reviewed the E/C program at Turkey Point in August 1988 in support of NUREG-1344 and determined that FP&L met NUMARC guidelines for inspection for E/C in single-phase lines. However, the staff found that the licensee had not implemented formalized procedures or administrative controls to ensure continued long-term implementation of its erosion/corrosion monitoring program for piping and components within the licensing basis. FP&L's letter of response to Generic Letter 89-08, dated July 21, 1989, informed NRC that a corporate procedure was developed to define the responsibilities within FP&L for the continuation of the E/C programs at Turkey Point Units 3 and 4 and St. Lucie Units 1 and 2. In addition, the licensee stated that due to the continuing effort necessary to ensure the integrity of high energy piping systems, and experience gained from previous inspection program, FP&L's engineering staff would be upgrading its engineering standard for this process.

The inspector reviewed the programmatic and inspection procedures listed below to ensure that the licensee had formalized procedures and administrative controls to ensure continued implementation of its E/C monitoring program for St. Lucie Unit 1.

- JPN-PSL-SEMP-91-031 Rev. 2, High Energy Piping Inspection Program Guidelines for 1991 Refueling Outage REA-SLN-86-072-1B Rev. 2
- E/C-PSL-1-001 Rev. D Field Change 1, St. Lucie Unit 1, Fall 1991
   Refueling Outage Erosion/Corrosion Examination Plan
- NDE 5.18 Rev. 3 Ultrasonic Thickness Measurements

The inspector's review revealed that FP&L uses the Electric Power Research Institutes (EPRI) CHEC and CHECMATE computer programs, industry data, and previous inspection data as predictive tools for determining and prioritizing inspection locations. FP&L Nuclear Engineering has inputted St. Lucie Unit 1 operational and as-built piping data into the CHEC and CHECMATE computer programs. The CHEC and CHECMATE computer programs predict piping and components susceptible to E/C based on the inputted data for identification and inspection during future refueling outages. In estimating E/C wear rates the CHECMATE program utilizes the following parameters: material composition, PH and water chemistry, temperature and pressure, oxygen, flow path geometry, flow velocity and moisture content When ultrasonic examinations reveals: (two-phase flow only). component/piping wall thickness to be below the established minimum wall thickness or predicted to violate that minimum during the next operating cycle the components/piping are replaced, inspections are also expanded to properly bound the E/C problem and correct its cause.

The areas chosen for cycle 11 E/C inspection were as follows:

- Turbine Crossunder piping
- Moisture separator reheater (MSR) shell side drain piping and fitting between the MSRs and the four LP heaters
- Mainsteam inlet to MSR "D" tubeside
- MSR "A" tubeside discharge to drain collector tank "B"
- HP Heater 5A extraction steam piping
- Feedwater pump "A and B" to heater drain pump "B" inlets
- High pressure heater drain pump discharge orifices, tees and LCV's
- LP Heater 3 to LP heater 2 heater drain LCV area
- Condensate and feedwater system orifices and tees
- Steam/Generator blowdown and feedwater piping inside containment
- LP Heater 3B heater vent at condenser

One hundred and sixteen inspection data sheets resulted for the above inspections and the expanded inspections. The inspector selected the data reports list below for review and to determine if the licensee's corrective actions appeared satisfactory:

<u>Data Sheet</u>	Component/System	<pre>Item ID</pre>	
PSL-1-EC-91-002	Heater Drain	12HD3-3-P-4-8	
PSL-1-EC-91-003	Heater Drain	10HD118-1-E-3-10	

Data Sheet (cont'd)	Component/System	<u>Item ID</u>
PSL-1-EC-91-005 PSL-1-EC-91-010 PSL-1-EC-91-011 PSL-1-EC-91-015 PSL-1-EC-91-017 PSL-1-EC-91-021 PSL-1-EC-91-023 PSL-1-EC-91-032 PSL-1-EC-91-039 PSL-1-EC-91-042 PSL-1-EC-91-043 PSL-1-EC-91-055 PSL-1-EC-91-069 PSL-1-EC-91-073 PSL-1-EC-91-073 PSL-1-EC-91-079	Heater Drain Heater Drain Heater Drain Heater Drain Heater Drain Heater Drain Meater Drain Main Steam Heater Drain Main Steam Condensate Condensate Heater Drain Heater Drain Heater Drain	10HD118-1-E-4-10 14HD39-4-P-9-19 14HD40-4-P-3-19 14HD84-5-P-24-54 20HD43-2-P-13-30 6HD-11-E-15-38 20HD43-2-R-2-31 8MS24-3-E-6-16 14HD84-1-P-19-44 8MS24-3-P-6-12 24C50-2-P-9-20 24C38-3-T-1-11 14HD84-1-P-20-46 14HD84-5-P-23-52A 14HD84-1-P-19-44 I-2B1-0-P-14-30
PSL-1-EC-91-080 PSL-1-EC-91-083	BlowDown Main Steam	I-2B1-0-E-1-3 8MS26-5-E-14-42

The records for the above examinations were excellent, detail drawings and photographs documented the equipment involved and the areas of concern. Corrective action appeared to be satisfactory. The information reviewed revealed an aggressive and conservative E/C program is presently in place for Unit 1 and should improve as more data becomes available.

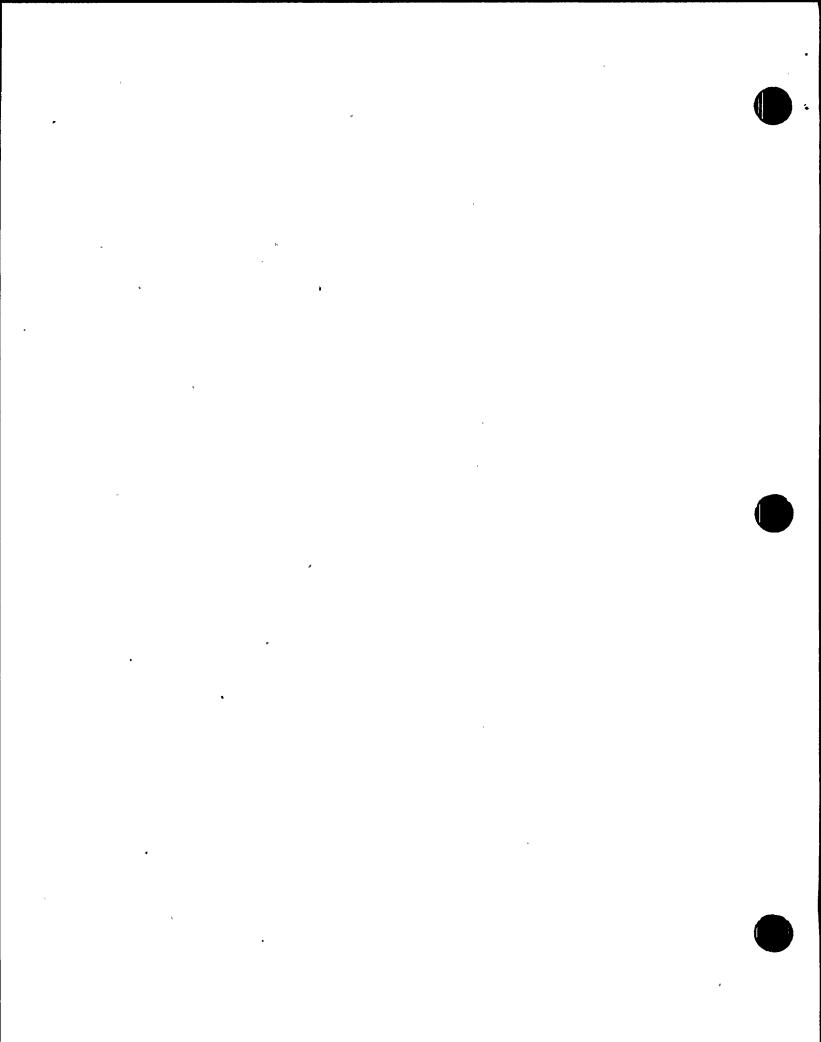
In addition to the above internal surface piping/component E/C program. The inspector reviewed visual examination data for a licensee augmented inspection program initiated this inspection period for ASME Class 2 and 3 components, piping, and supports located in the intake structure, yard and pipe tunnel which are subject to external corrosion damage caused by adverse environment conditions. The inspector's review of NDE procedures identified in paragraph 3 above, also revealed that these procedures had requirements for examiners to report boric acid corrosion on components in areas where they perform their NDE examinations. The inspector noted that data for these inspections was excellent. These boric acid inspections are above and beyond the established program for boric acid corrosion required by Generic Letter 88-05

Within the areas examined, no violation or deviation were identified.

## 5. Review of Radiographic Film - Unit 1 (57090)

The inspector reviewed radiographic film and their associated records for the ASME Class 2 Plant modification welds listed below. This review was performed to determine whether the radiographic film and associated records had been prepared, evaluated, and maintained in accordance with the licensee's approved radiographic procedures Nos. TS-9.2 and TS-9.3.1.

Inspection Report No.	Weld ID No.	Support Line No.	Comments
M90-1673	001K	CH Line 0544	SAT
M90-1675	001K	2F-1-CH-0544	(1) Film ID missing and/or not legible on film segments (2) Radiographer dated his examination as September 4, 1990. The film was read on March 22, 1990 and subsequent shots taken on March 23, 1990. Therefore, the Radiographer's date is meaningless for this record.
M90-1676	001N	2F-1-CH-0544	Film ID not legible and/or incomplete
M90-1682	014A	CH-0A01	SAT
M90-1683	013A	CH-0A01	SAT
M90-1684	005A	CH-0A01	SAT
M90-1685	004A,	CH-0A01	SAT
M90-1686	013A	CH-0939	Missing two film from package received from vault (film was later found but not in vault)
M90-1688	014A	2F-1-CH-0939	SAT ·
M90-1690	31A	CH-553	SAT
M90-1691	30A	2F-1-CH-0553	Radiographer did not sign or date Radiographic Inspection Report (RIR) for radiographs taken on March 24, 1991
M90-1692	13A	CH-553	SAT .
M90-1693	012A	2F,-1-CH-553	SAT
M90-2673	009Ŗ3	2F-1-HVS-0010	SAT
M90-2259	96	2F-1-HVS-0010	SAT .
M90-2743	97	2F-1-HVS-0010	SAT
M90-22621	98	2F-1-HVS-0010	SAT
	M90-1682 M90-1683 M90-1684 M90-1685 M90-1686 M90-1690 M90-1691 M90-1693 M90-2673 M90-2259 M90-2743	M90-1682 014A M90-1683 013A M90-1684 005A M90-1685 004A M90-1686 013A  M90-1688 014A M90-1690 31A M90-1691 30A  M90-1693 012A M90-2673 009R3 M90-2259 96 M90-2743 97	M90-1682 014A CH-0A01 M90-1683 013A CH-0A01 M90-1684 005A CH-0A01 M90-1685 004A CH-0A01 M90-1686 013A CH-0939 M90-1688 014A 2F-1-CH-0939 M90-1690 31A CH-553 M90-1691 30A 2F-1-CH-0553 M90-1693 012A 2F-1-CH-553 M90-2673 009R3 2F-1-HVS-0010 M90-2259 96 2F-1-HVS-0010 M90-2743 97 2F-1-HVS-0010



Inspection Report No. (cont'd)	Weld ID No.	Support Line No.	Comments
M90-2262	99	2F-1-HVS-0010	SAT
M90-2263	100	2F-1-HVS-0010	SAT
M90-2264	101	2F-1-HVS-0010	Film ID on Film Interval 6-0 Has Weld No. and Date Only.
M90-2265	102	2F-1-HVS-0010	SAT
•	103 .	2F-1-HVS-0010	RIR Missing Inspection Report No., No. of Exposures, and No. of Film

The inspector's review was only a sample of the available film for Unit 1, and quality assurance (QA) discrepancies were apparent as indicated above. The licensee corrected the above discrepancies and committed to perform a review to be completed by January 15, 1992 of all radiographs and their documentation for the past two years. However, FP&L's Radiographic Procedure #TS 9.3 paragraph 14.F requires that, permanent, non permanent and INFO film, shall have the following identification permanently included on each film by use of lead characters during exposure or by visible light imprinted.

\*FPL-PSL No. Unit number

\*PC/M or CWO No.

\*System or Component Identification and Drawing No., and Rev. No.

\*Weld No. or part number (as applicable)

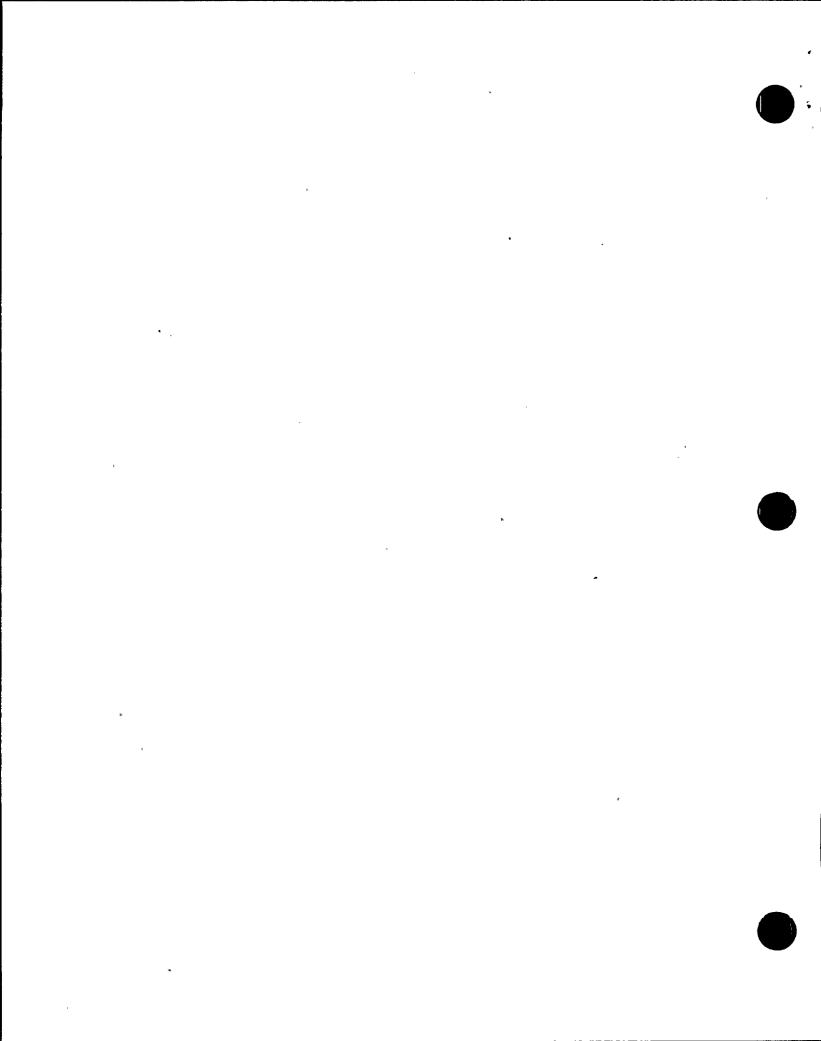
\*Weld Repair Report No. (If applicable)

\*Date

In addition, paragraph 17.8.1 of radiographic procedure No. TS 9.3 requires that, the radiographic inspection report shall include as a minimum all of the information indicated. This item was reported to the licensee as violation 50-335/91-24-01, Failure to Follow Procedure for Properly Identifying Radiographic Film and Documentation of Associated Records. The inspector's technical review of the above radiographs to insure discrepancies are properly dispositioned was satisfactory.

#### 6. Exit Interview

The inspection scope and results were summarized on December 6, 1991, with those persons indicated in paragraph 1. The inspector described the areas



inspected and discussed in detail the inspection results listed below. Proprietary information is not contained in this report. Dissenting comments were not received from the licensee.

(Open) SL-4 violation 50-335/91-24-01, "Failure to Follow Procedure for Properly Identifying Radiographic Film and Documentation of Associated Records" paragraph 5.

## 7. Acronyms and Initialisms

UT

ASME American Society of Mechanical Auxiliary Aux B&PV Boiler and Pressure Vessel CCW Component Cooling Water CE Combustion Engineering CH Charging CNR Customer Notification Report Dtd Dated E/C Erosion/Corrosion FP&L Florida Power and Light FW Feedwater ID Identification ISI Inservice Inspection LP Low Pressure MS Main Steam MSR Moisture Separator Reheater MT Magnetic Test NDE Nondestructive Examination Number No. NRC Nuclear Regulatory Commission **PSL** Plant Saint Lucie PΤ Liquid Penetrant Test QA Quality Assurance 00 Quality Control REV Revision RIR Radiographic Inspection Report SG Steam Generator SI Safety Injection . SL Severity Level TS Technique Sheet

Ultrasonic Test