FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules page 1 of 27

Florida Power and Light Co. 9250 W. Flagler, Miami, Fla.

1. Owner

(Name and address of Owner)

St. Lucie Nuclear Power Plant (formerly Hutchinson Island), P.O. Box 128, Ft. Pierce, Fl 33454

2. Plant

(Name and address of Plant)

3. Plant Unit 1

4. Owner Certificate of Authorization (if required) N/A

5. Commercial service date 21 DECEMBER 1975

6. National Board Number for Unit N/A

7. Components Inspected

	Manufacturer or Installer	Manufacturer or Installe Serial No.	State or Province Number	National Board Number
RPV VESSEL	COMBUSTION ENG.	ei/A	NZA	NZA
PRESSURIZER	COMBUSTION ENG		ā/ā	N/A
STM. GEN.	COMBUSTION ENG	A/R	N/A	N/A
RCP POMP	COMBUSTION ENG		AZA	- iNZA
REACTOR COOLANT	EBASCO		a/A	
SAFETY INJECTION	EBASCO		MZA	N/A
MAIN STEAM	EBASCO	NZA	NZA	NZA
FEEDWATER	EBASCO		N/A	N/A

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 3 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

8408170237 840814 PDR ADOCK 05000335 PDR

page 2 of 27

## FORM NIS-1 (back)

8.Examination Dates 3-2-83 to 5-16-84

9. Inspection Interval from 3 1/3 YEARS to 6 2/3 YEARS

10. Abstract of Examination. Include a list of examinations and a statement concerning status of work required for current interval. SEE ATTACHED SUPPLEMENT

11. Abstract of Conditions Noted. SAME AS ITEM 10 ABOVE

12. Abstract of Corrective Measures Recommended and Taken. SAME AS ITEM 10 ABOVE

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASAE Code, Section XI. Date <u>9 August 1984</u> Signed <u>FLORIDA POWER & LIGHT CO.</u> By <u>Ployder</u> 10100 Owner

Certificate of Authorization no. (if applicable) N/A Expiration date N/A

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ORIO and employed by <u>\*</u> of NORWOOD, MASS have inspected the components described in this Owners' Data Report during the period 3-2-83 to 5-16-84 , and state that to the best of my knowledge and belier, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date <u>9 August 1984</u> <u>Charles & Fallo</u> Commissions <u>NB-7719</u> Inspector's Signature National Board, state, Province and No.

\* ARKWRIGHT BOSTON MEG'S MUTUAL INSURANCE COMPANY

page 3 of 27

# SUPPLEMENTAL SHEET NIS-1

- Owner: Florida Power & Light Co. 9250 West Flagler Miami, Florida 33152
- 2. Plant: St. Lucie (formerly Hutchinson Island) P.O. Box 128 Ft. Pierce, Florida 33454

3. Plant Unit : 1

- 4. Owner Certificate of Authorization : N/A
- 5. Commercial Service Date: 21 December 1976
- 6. National Board Number for Unit: N/A

10.	REPORT NUMBER	ORGANIZATION	DESCRIPTION OF SERVICE
	CIG-PSL-001	FPL	INSERVICE INSPECTION VOLUME I THROUGH VOLUME II
		SWRI	MECHANIZED EXAMINATION VOLUME I PHROUGH VOLUME V
	ECT-PSL-J01	FPL	EDDY CURRENT EXAMINATION OF STEAM GENERATORS
	IR-ISI-035	CE	REACTOR VESSEL VISUAL INTERNAL AND INTERIOR EXAMINATION REPORT
	45T-2-1984	FPL	FEEDWATER PIPING REPORT
	2C/M 108-32	CE	RPV CLOSURE HEAD MODIFICATIONS
	PC/4 254-183	FPL	FEEDWATER PIPING REPLACEMENT
	SWRI 5179	SWRI	1984 INSERVICE INSPECTION REPORT VOLUME I THROUGH VI
	IR-131-029	CE	RPV CORE SUPPORT BARREL NONDESTRUCTIVE EXAMINATION REPORT SECTION 1 THROUGH III

	FORM NIS-2 OWNER'S REPORT FOR REP	
	As required by the provisions of	the ASME Code Section XI
==:	***************************************	***************************************
1.	Owner FLORIDA POWER & LIGHT CO.	Date 9 AUGUST 1984
	P.O. BOX 529100 MIAMI, FLORIDA 33152	
		sheet 4 of 27
	address	
-	ST. LUCIE	
2.	Plantname	Unit
	P.O. BOX 128, FT. PIERCE, FL. 33454	PC/M NO. 108-82
	address	repair organization P.O. No. job No., etc.
	COMBUSTION ENG. INC.	NONE
3.	work Performed by	Type Code Symbol Stamp N/A
	1000 PROSPECT HILL ROAD	Authorization no
	EAST WINDSOR, CONNECTICUT	N/A
		Expiration Date
	address	
	REACTOR PRES	SURE VESSEL
4 .	Identification of system	

5. (a) Applicable Construction Code SECTION III 1980 Edition, 1980 WINTER ADDENDA

- (b) Applicable Edition of Section XI utilized for repairs or replacements 1974 EDITION
   6. Identification of components repaired or replaced and replacement
- components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l Bd. No.	Crn No.	Other Ident- ifica- tion	Year Built	Repaired Replaced or repl- acement	
RPV	CE	19367-150 19367-151	N/A	N/A	N/A	N/A	MODIFI- CATION	YES
RPV	CE	19367-152 19367-153	N/A	N/A	N/A	N/A	MODIFI- CATION	YES
RPV	Сы	19367-154 19367-155	N/A	N/A	N/A	N/A	MODIFI- CATION	YES
RPV	CE	19367-156 19367-157	N/A	N/A	N/A	N/A	MODIFI- CATION	YES

page 5 of 27

FORM NIS-2

SEE SUPPLEMENT SHEET, PAGE 6 OF 27

7. Description of work\_

8. Tests Conducted: Hydrostatic\_X\_ Pneumatic\_ Nominal Operating Pressure

Other Pressure 2340 psi Test Temp. 400 F

ICCS MODIFICATION TO THE REACTOR PRESSURE VESSEL CLOSURE

9. Remarks

(Applicable Manufacturer's Data Report to be attached) HEAD, N2 DATA REPORT FOR THE RVLMS FLANGE ASSEMBLIES ARE ATTACHED

CERTIFICA	ATE OF COMPLIANCE	
To certify that the statements mad MODIFICATION conforms to Sect ( Repair or Replacement ) Signed	de in this report are cor tion XI of the ASME Code.	
(Owner or Owner's Designee)	PNS SECTION SUPERVISOR (Title)	<u>9 AUG 1984</u> (Date)
CERTIFICA	ATE OF INSPECTION	
I, the Undersigned, holding a vali Board of Boiler and Pressure Vesse of OHIO employed by ** inspected the MODIFICATION 9 AUGUST 1984 and state belief, this repair or replacement with Section XI of the ASME Code. the Inspector nor his employer tak concerning the repair or replaceme , neither the Inspector nor his em any personal injury or property da or connected with this inspection. Date 8-9-84 Charle Lielle	el Inspectors and the Sta of NORWOOD, described in that to the best of my k t has been constructed in By signing this certific kes any warranty. express ent described in this rep mployer shall be liable i amage or a loss of any ki	te or Province MASS have this report on nowledge and accordance ate, neither ed or implied, ort. Furthermore n any manner for nd arising from NB-7719
(Inspector)		
(1	(State or Provi	nce National

## NIS-2 SUPPLEMENTAL SHEET

PAGE 6 OF 27

DATE: 9 AUGUST 1984

UNIT: 1

1. OWNER: FLORIDA POWE P.O. BOX 529

2. PLANT:

FLORIDA POWER & LIGHT P.O. BOX 529100 MIAMI, FLORIDA 33152

- ST. LUCIE P.O. BOX 128 FT. PIERCE, FLORIDA 33454
- 3. WORKCOMBUSTION ENGINEERINGJOB NO. PC/M 108-82PERFORMED1000 Prospect Hill RoadBY:EAST WINDSOR, CONNECTICUT
- 4. IDENTIFICATION REACTOR PRESSURE VESSEL HEAD OF SYSTEM:
- 7. DESCRIPTION COMBUSTION ENGINEERING PERFORMED THE DESIGN AND OF WORK: FABRICATION OF THE FLANGE ASSEMBLY.

COMBUSTION ENGINEERING PERFORMED THE INSTALLATION AND WELDING OF THE RVLMS FLANGE ASSEMBLY.

COMBUSTION ENGINEERING PERFORMED THE INSTALLATION OF THE INSTRUMENTATION LINES.

COMBUSTION ENGINEERING PERFORMED THE STRESS ANALYSIS ON THE RPV ICI FLANGES.

COMBUSTION ENGINEERING PERFORMED VISUAL AND LIQUID PENETRANT EXAMINATION ON THE BUTT WELDS.

FPL PERFORMED THE HYDROSTATIC PRESSURE TESTS.

FPL PLANT QC BACKFIT FERFORMED THE RADIOGRAPHIC EXAMINATIONS.

· · · ·	ORM N-2 MANUE AG		ARTPORT FOR the Provisions of t			
. (a) Manufa	coured by Combust	ion Enginee	ering Inc., Ea	st Windsor, C	onnecticut	- 3
(b) Manufa	ctured for Florida	Power and	Light Co., St	. Lucie Plant	Unit 1	
Identificat	ion-Manufacturer's Ser					1
(a) Constr	ucted According to Dr	awing No. E-19	367-165-011Draw	ing Prepared by NUC	lear Produc	ts Manufactu
	ption of Part Inspected			ly	1 <u></u>	
(c) Applic	able ASME Code: Section	on III, Edition _1	980, Addenda da	Winter (1980, Case	No. N/AC	lass_1
Remarks: _	Pressure Contai	Inment Appur	ctenance for a	n In Core Ins	trumentation	n Flange
/Assem	bly. This appur	tenance is	attached by w	elding to a C	losure Head	Instrument
Nozzle						
	nt Design Specification	n and Stress Rep	on.)	ponsibility of the p and Stress Report	t the appurtenance	e is not included
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As required by the Provisions of the ASME Code Rules Page 8 of 27
(a) Manufactured by Combustion Engineering Inc., East Windsor, Connecticut - 3 (Name and address of Manufacturer of part)
(b) Manufactured for Florida Power and Light Co., St. Lucie Plant, Unit 1 (Name and address of Manufacturer of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part 19367-151 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No. E-19367-165-01 brawing Prepared by Nuclear Products Manufactu
(b) Description of Part Inspected Flange Adapter Assembly
Winter (c) Applicable ASME Code: Section III, Edition <u>1980</u> , Addenda date <u>1980</u> , Case No. <u>N/A</u> <u>Class 1</u>
. Remarks: Pressure Containment Appurtenance for an In Core Instrumentation Flange (Brief description of service for which component was designed)
Assembly. This appurtenance is attached by welding to a Closure Head Instrument
Nozzle.
are 2/23 19 83 Signed Cumbustion Eng. Inc. By TSC Total
are 2/23 19 83 Signed Cumbustion Eng. Inc. By K.C. Tolides-Quality Control (Manufacturer) K.C. Tolides-Quality Control errificate of Authorization Expires April 7, 1984 Certificate of Authorization No. N2089 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
are <u>2/23</u> <u>19</u> <u>83</u> SignedCumbustion Eng. Inc. By <u>KC</u> <u>K.C. Tolides-Quality Control</u> (Manufacturer) <u>K.C. Tolides-Quality Control</u> <u>K.C. Tolides-Quality Control</u> <u>CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)</u> Design information on file at <u>Combustion Engineering Inc., East Windsor, Connecticut</u>
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are <u>2/23</u> <u>19</u> <u>83</u> SignedCumbustion Eng. Inc. By <u>KC</u> <u>K.C. Tolides-Quality Control</u> (Manufacturer) Errificate of Authorization Expires <u>April 7, 1984</u> Certificate of Authorization No. <u>N2089</u> CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file at <u>Combustion Engineering Inc., East Windsor, Connecticut</u> Stress analysis report on file at <u>Combustion, Engineering Inc., East Windsor, Connecticut</u> Design specifications certified by <u>D.J. McLaughlin</u> <u>Prof. Eng. State Ct.</u> <u>Reg. No. 7955</u>
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\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 81/2" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sh ets is recorded in item 3, "Remarks".

TORM N-2 MANUEACTURERS DATA REPORT FOR NUCLEAR PAGE AND APPURTENANCES As required by the Provisions of the ASME Code Rules Page 10 of	27
(a) Manufactured by Combustion Engineering Inc., East Windsor, Connecticut - 3 (Name and address of Manufacturer of part)	
(b) Manufactured for Florida Power and Light Co., St. Lucie Plant, Unit 1 (Name and address of Manufacturer of completed nuclear component)	
Identification-Mar.ufacturer's Serial No. of Part 19367-152 .: at'l Bd. No. N/A	
(a) Constructed According to Drawing No. E-19367-165-01 brawing Prepared by Nuclear Products Manufe	actur
(b) Description of Part Inspected Flange Adapter Assembly	
(c) Applicable ASME Code: Section III, Edition 1980, Addenda date 1980, Case No. N/A Class 1	
Remarks: Pressure Containment Appurtenance for an In Core Instrumentation Flange (Brief description of service for which component was designed)	
Assembly. This appurtenance is attached by welding to a Closure Head Instrume	nt
Nozzle.	
afacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not include component Design Specification and Stress Report.) $\frac{2/2.3}{19.83}$ Signed Combustion Eng. Inc. By 150 760	2
e component Design Specification and Stress Report.)	uded
<i>2/2.3</i> 19 <i>B3</i> Signed Combustion Eng. Inc. By <i>K.C.</i> Tolides-Quality Contr (Manufacturer) K.C. Tolides-Quality Contr ficate of Authorization Expires <u>April 7, 1984</u> Certificate of Authorization No. <u>N2089</u>	uded
e component Design Specification and Stress Report.) 2/23 19 B3 Signed Combustion Eng. Inc. By K.C. Tolides-Quality Contr (Manufacturer) K.C. Tolides-Quality Contr ficate of Authorization Expires April 7, 1984 Certificate of Authorization No. N2089 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	uded
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2/23       19       B3 Signed Combustion Eng. Inc.       By       K.C. Tolides-Quality Contresting Contresting Contresting Specification Expires         April 7, 1984       Certificate of Authorization No.       N2089         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         esign information on file at Combustion Engineering Inc., East Windsor, Connecticut         ress analysis report on file at Combustion Engineering Inc., East Windsor, Connecticut         esign specifications certified by D.J. McLaughlin         Prof. Eng. State Ct.         Reg. No. 5275	vded
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As required by the Provisions of the ASME Code Rules Page 12 o	f 2
(a) Manufactured by Combustion Engineering Inc., East Windsor, Connecticut - 3 (Name and address of Manufacturer of part)	
(b) Manufactured for Florida Power and Light Co., St. Lucie Plant, Unit 1 (Name and address of Manufacturer of completed nuclear component)	
Identification-Manufacturer's Serial No. of Part 19367-153 Nat'l Bd. No. N/A	
(a) Constructed According to Drawing No. E-19367-165-01 Brawing Prepared by Nuclear Products Manufact	turi
(b) Description of Part Inspected Flange Adapter Assembly	
Winter	
(c) Applicable ASME Code: Section III, Edition 1980, Addenda date 1980, Case No. N/A Class 1	
Remarks: Pressure Containment Appurtenance for an In Core Instrumentation Flange (Brief description of service for which component was designed)	
Assembly. This appurtenance is attached by welding to a Closure Head Instrument	:
Nozzle.	
We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code co	-
the component Design Specification and Stress Report.) The <u>2/23</u> 19 <u>83</u> SignedCombustion Eng. Inc. By <u>KC</u> <u>K.C. Tolides-Quality Control</u> (Manufacturer) K.C. Tolides-Quality Control	
tificate of Authorization Expires April 7, 1984 Certificate of Authorization No. N2089	-
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	7
Design information on file at Combustion Engineering Inc., East Windsor, Connecticut	
tress analysis report on file at Combustion Engineering Inc., East Windsor, Connecticut	
Peaign specifications certified by D.J. McLaughlin Prof. Eng. State Ct. Reg. No. 7955	
tress analysis report certified by Frank P. Hill Jr. Prof. Eng. State Tenn Reg. No. 5275	
CERTIFICATE OF SHOP INSPECTION	Ī
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors	
Ad/or the State or Province of Hartford and employed by Hartford Steam Boiler I & I Co. Hartford, Connecticut have inspected the part of a pressure vessel described in this	
anufacturer's Partial Data Report on $\frac{2}{23}$ 19 £3, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concern- g the part described in this Manufacturer's Partial Data Report. Furthermore, weither the Inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected the this inspection.	
2/12 82	

Date 2/23 19 83			
At Intolewhere	Commissions	CT 1126	
Inspector's Signature	Commissions	National Board, State, Province and No.	-

"Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 81/2" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks",

	As required by the Provisions o	R NUCLEAR PART AND APT of the ASME Code Rules	Page 14 of 27
(a) Manufactured by Combus	tion Engineering Inc	East Windsor, Connecti	cut - 3
	a Power and Light Co.		1
Identification-Manufacturer's S		Nat'l Bd. No	
(a) Constructed According to I	Drawing No. E-19367-165-01	trawing Prepared by Nuclear P	roducts Manufact
(b) Description of Part Inspect	edFlange Adapter Asse	winter	
(c) Applicable ASME Code: Sec	tion III, Edition <u>1980</u> , Addendi		AClass1
Remarks: Pressure Conta	Brief description of service for	an In Core Instrumen: which component was designed)	tation Flange
Assembly. This appu	urtenance is attached by	welding to a Closure	Head Instrument
Nozzle.			
2/23 8	3	. TEC.	Tobale
tificate of Authorization Expires	ATION OF DESIGN FOR APPUL	K.C. Tolides Certificate of Authorization No.	-Quality Control N2089
tificate of Authorization Expires	(Manu/acturer)	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable)	)
CERTIFIC	April 7, 1984 ATION OF DESIGN FOR APPUI	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable) inc., East Windsor, Con	-Quality Control N2089
tificate of Authorization Expires CERTIFIC Design information on file at tress analysis report on file at	(Manufacturer) April 7, 1984 ATION OF DESIGN FOR APPUI Combustion Engineering I Combustion Engineering y D.J. McLaughlin	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable) inc., East Windsor, Con	-Quality Control N2089 nnecticut
tificate of Authorization Expires CERTIFIC Design information on file at tress analysis report on file at esign specifications certified b	(Manufacturer) April 7, 1984 ATION OF DESIGN FOR APPUI Combustion Engineering I Combustion Engineering y D.J. McLaughlin	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable) Inc., East Windsor, Con Inc., East Windsor, Co	-Quality Control N2089 nnecticut nnecticut Reg. No.7955
tificate of Authorization Expires CERTIFIC Design information on file at itress analysis report on file at Design specifications certified b	(Manufacturer) April 7, 1984 ATION OF DESIGN FOR APPUI Combustion Engineering I Combustion Engineering y D.J. McLaughlin	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable) Inc., East Windsor, Con Inc., East Windsor, Co Prof. Eng. State <u>Ct.</u> Prof. Eng. State <u>Tenn</u>	-Quality Control N2089 nnecticut nnecticut Reg. No.7955
tificate of Authorization Expires CERTIFIC Design information on file at tress analysis report on file at besign specifications certified by tress analysis report certified by tress analysis report certified by I, the undersigned, holding a v hd/or the State or Province of H Hartford, Connectic anufacturer's Partial Data Report d belief, the Manufacturer has co By signing this certificate, ne By signing this certificate, ne all be liable in any manner for	(Manufacturer) April 7, 1984 ATION OF DESIGN FOR APPUI Combustion Engineering I Combustion Engineering y D.J. McLaughlin y Frank P. Hill Jr. CERTIFICATE OF SHOP valid commission issued by the Nati artford and employed ut have inspect	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable) Inc., East Windsor, Cor Inc., East Windsor, Cor Prof. Eng. State Ct. Prof. Eng. State Ct. Prof. Eng. State Ct. INSPECTION ional Board of Boiler and Pressur d by Hartford Steam Boi red the part of a pressure vesse 1923, and state that to the b with the ASME Code Section III. r makes any warranty, expressed	-Quality Control N2089 nnecticut  
tificate of Authorization Expires CERTIFIC Design information on file at itress analysis report on file at besign specifications certified b tress analysis report	(Manufacturer) April 7, 1984 ATION OF DESIGN FOR APPUI Combustion Engineering I Combustion Engineering y D.J. McLaughlin y D.J. McLaughlin y Frank P. Hill Jr. CERTIFICATE OF SHOP valid commission issued by the Nati artford and employed ut have inspector rt on 223 constructed this part in accordance wither the Inspector nor his employed inter the Inspector nor his employed anufacturer's Partial Data Report.	K.C. Tolides Certificate of Authorization No. RTENANCE (when applicable) Inc., East Windsor, Cor Inc., East Windsor, Cor Prof. Eng. State Ct. Prof. Eng. State Ct. Prof. Eng. State Ct. INSPECTION ional Board of Boiler and Pressur d by Hartford Steam Boi red the part of a pressure vesse 1923, and state that to the b with the ASME Code Section III. r makes any warranty, expressed	-Quality Control N2089 nnecticut  

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	LORM N-2 MAY UT AFTER BLES DATA BEPORT FOR NUCLEAR PART AND APPERTENANCES* As required by the Provisions of the ASME Code Rules Page 16 of 27
	a) Manufactured by Combustion Engineering Inc., East Windsor, Connecticut - 3
	b) Manufactured for Florida Power and Light Co., St. Lucie Plant, Unit 1 (Name and address of Manufacturer of completed nuclear component)
	dentification-Manufactu er's Serial No. of Part 19367-155Nat'l Bd. NoN/A
(	a) Constructed According to Drawing No. E-19367-165-01 Brawing Prepared by Nuclear Products Manufactu
(	b) Description of Part Inspected Flange Adapter Assembly
(	Winter c) Applicable ASME Code: Section III, Edition 1980, Addenda date 1980, Case No. N/A Class 1
P	emarks: Pressure Containment Appurtenance for an In Core Instrumentation Flange (Brief description of service for which component was designed)
-	Assembly. This appurtenance is attached by welding to a Closure Head Instrument
_	Nozzle.
	the state of the s
De	2/23 19 83 Signed Combustion Eng. Inc. By KC Wand acturer, (Manufacturer) K.C. Tolides-Quality Control K.C. Tolides-Quality Control CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Sign information on file at Combustion Engineering Inc., East Windsor, Connecticut Ess analysis report on file at Combustion Engineering Inc., East Windsor, Connecticut
De	Z/23       19       B3       SignedCombustion Eng. Inc.       By       K.C. Tolides-Quality Control         K.C. Tolides-Quality Control         Certificate of Authorization No.         N2089         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         sign information on file at         Combustion Engineering Inc., East Windsor, Connecticut
De	Z/23       19       B3       Signed Combustion Eng. Inc.       By       K.C. Tolides-Quality Control         K.C. Tolides-Quality Control         K.C. Tolides-Quality Control         Certificate of Authorization No.         N2089         CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)         Sign information on file at Combustion Engineering Inc., East Windsor, Connecticut         Sign specifications certified by D.J. McLaughlin         Prof. Eng. State Ct.         Reg. No. 7955
De Stre Des Stre Ind f_ an nd Eng	Z/23       19       3       SignedCombustion Eng. Inc.       By       XeC       Meddedic         (Manufacturer)         K.C. Tolides-Quality Control         icate of Authorization Expires

FORM N-2 MANY LAG TURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
As required by the Provisions of the ASME Code Rules Page 18 of 2
(Name and address of Manufactured by Combustion Engineering Inc., East Windsor, Connecticut - 3
(b) Manufactured for Florida Power and Light Co., St. Lucie Plant, Unit 1 (Name and address of Manufacturer of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part 19267-156 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No. E-19367-155-01 brawing Prepared by Nuclear Products Manufactur
(b) Description of Part Inspected Flange Adapter Assembly Winter
(c) Applicable ASME Code: Section III, Edition 1980, Addenda dare 1980, Case No. N/A Class 1
. Remarks: Pressure Containment Appurtenance for an In Core Instrumentation Flange (Brief description of service for which component was designed)
Assembly. This appurtenance is attached by welding to a Closure Head Instrument
Nozzle.
Trificare of Authorization Expires April 7, 1984 Certificate of Authorization No. N2089
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)
Design information on file at Combustion Engineering Inc., East Windsor, Connecticut
Stress analysis report on file at Combustion Engineering Inc., East Windsor, Connecticut
Design specifications certified by D.J. McLaughlin Prof. Eng. State Ct. Reg. No. 7955
Stress analysis report certified by Frank P. Hill Jr. Prof. Eng. State Tenn Reg. No. 5275
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Hartford</u> and employed by <u>Hartford Steam Boiler I &amp; I Co</u> of <u>Hartford</u> , <u>Connecticut</u> have inspected the part of a pressure vessel described in this danufacturer's Partial Data Report on <u>203</u> 1983, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concern- ng the part described in this Manufacturer's Partial Data Report. Furthermore, wither the Inspector nor his employer thall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 19 83

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• Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 81/2" x 11", (2) information in items 1-2 on this data report is included on zach sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks",

, FORM N-2 MANUEAU DEERS DATA REPORT FOR NUCLEAR PART AND APPERTENANCES. As required by the Provisions of the ASME Code Rules Page 20 of 27
(a) Manufactured by Combustion Engineering Inc., East Windsor, Connecticut - 3
(b) Manufactured for Florida Power and Light Co., St. Lucie Plant, Unit 1 (Name and address of Manufacturer of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part 19267-157 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No. E-19367-155-01 brawing Prepared by Nuclear Products Manufacturing
(b) Description of Part Inspected Flange Adapter Assembly Winter (c) Applicable ASME Code: Section III, Edition 1980, Addenda date 1980, Case No. N/A Class 1
Remarks: Pressure Containment Appurtenance for an In Core Instrumentation Flange (Brief description of service for which component was designed)
Assembly. This appurtenance is attached by welding to a Closure Head Instrument
Nozzle.
Cerrificate of Authorization Expires April 7, 1984 Certificate of Authorization No. N2089 CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) Design information on file at Combustion Engineering Inc., East Windsor, Connecticut
Stress analysis report on file at Combustion Engineering Inc., East Windsor, Connecticut
Design specifications certified by D.J. McLaughlin Prof. Eng. State Ct Reg. No. 7955
Stress analysis report certified by Frank P. Hill Jr. Prof. Eng. State Tenn Reg. No. 5275
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Hartford</u> and employed by <u>Hartford Steam Boiler I &amp; I Co</u> of <u>Hartford</u> , <u>Connecticut</u> have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on <u>2/23</u> 1983, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concern- ing the part described in this Manufacturer's Partial Data Report. Furthermore, weither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
CT 1126 Inspector's Signature Commissions CT 1126 National Board, State, Province and No.

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"Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 81/2" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

		5-2 OWNER'S REPORT FOR REPAI ired by the provisions of th	
===:			
1.	Owner FLORIDA I	POWER & LIGHT CO.	Date 9 AUGUST 1984
	P.O. BOX 52910	10 MIAMI, FLORIDA 33152	sheet 22 of 27
	ST. LUCIS	address S	1
2.	Plant		Unit
	P.O. BOX 128	name , FT. PIERCE, FL. 33454	PC/M NO. 254-183
		address	repair organization P.O. No. job No., etc.
		SEE ATTACHED SUPPLEMENT	NONE
3.	work Performed		Type Code Symbol StampN/A
			Authorization noN/A
			Expiration Date
		address	
			DR FEEDWATER SYSTEM
4.	Identification	ot system	

- 5. (a) Applicable Construction Code SECTION III 1965 Edition, 1967 WINTER ADDENDA & B31-7 1969 EDITION
  - (b) Applicable Edition of Section XI utilized for repairs or replacements 1974 EDITION TO SUMMER 1975
- 6. Identification of components repaired or replaced and replacement components

dame of Component	Name of Mfr.	MÉrs. Ser. No.	Nat'l Bd. No.	Crn NO.	Other Ident- ifica- tion	Year Built	Repaired Replaced or repl- acement	and the second
FW NOZZLE SAFE END	Ca	32583-1	N/A	N/A	18-3F- 51	N/A	REPLACE- -MENT	NO
	CE	32583-2	N/A	8/A	18-BF- 52	N/A	REPLACE- -MENT	NO
ELBOWS	HUB, INC	N/A	N/A	N/A	18-BF- 51	N/A	REPLACE- -MENT	NO
	HUB,INC	N/A	N/A	N/A	18-8F- 52	N/A	REPLACE- -MENT	NÖ

page 23 of 27

FORM NIS-2

SEE SUPPLEMENT SHEET, PAGE 24 OF 27

7. Description of work\_

8. Tests Conducted: Hydrostatic X Pneumatic Nominal Operating Pressure

Other Pressure 1250 psi Test Temp. 100 F

STEAM GENERATOR FEEDWATER NOZZLE SAFE END AND ELBOW

9. Remarks

(Applicable Manufacturer's Data Report to be attached) REPLACEMENT. LOOP A & B

NOTE; NO MANUFACTURER'S DATA REPORTS ARE ATTACHED

CERTIFICATE OF COMPLIANCE To certify that the statements made in this report are correct and this REPLACEMENT conforms to Section XI of the ASME Code. ( Repair or Replacement ) Signed conge Idel PNS SECTION SUPERVISOR 9 AUG 1984 (Owner or Owner's Designee) (Title) (Date) CERTIFICATE OF INSPECTION I, the Undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of OHIO employed by \*\* of NORWOOD, MASS have inspected the REPLACEMENT described in this report on 9 AUGUST 1984 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer takes any warranty. expressed or implied, concerning the repair or replacement described in this report. Furthermore , neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. NB-7719 Fallo Date 8-9-84 harly G-Commissions FACTORY MUTUAL SYSTEMS (Inspector) (State or Province, National Board) ARKWRIGHT BOSTON MFG'S MUTUAL INS. CO.

#### NIS-2 SUPPLEMENTAL SHEET

PAGE 24 OF 27

FLORIDA POWER & LIGHT DATE: 9 AUGUST 1984 P.O. BOX 529100

2. PLANT: P.O. BOX 128 FT. PIERCE, FLORIDA 33454 UNIT: 1

3. WORK PERFORMED BY:

1. OWNER:

JOB NO. PC/M 254-183

4.IDENTIFICATION STEAM GENERATOR FEEDWATER NOZZLE SAFE END AND OF SYSTEM: ELBOWS REPLACEMENT

SEE BELOW DESCRIPTION

MIAMI, FLORIDA 33152

7. DESCRIPTION COMBUSTION ENGINEERING PERFORMED THE DESIGN AND OF WORK: FABRICATION OF THE SAFE END SPOOL PIECE. (ASME SA-106, GRADE C) I.D. 15.812", O.D. 18.12"

> COMBUSTION ENGINEERING PERFORMED THE ENGINEERING SUPPORT OF THIS REPLACEMENT.

COMBUSTION ENGINEERING PERFORMED THE FINAL STRESS ANALYSIS.

HUB, INC. PROVIDED THE (2) EACH 18" SCHEDULE 80, 90 DEGREE LONG RADIUS ELBOWS. ( ASTM A-234, GRADE WPB )

BECHTEL ENGINEERING PERFORMED THE WELDING ON THE REPLACEMENT COMPONENTS.

FPL PERFORMED THE HYDROSTATIC PRESSURE TESTS.

FPL CODES & INSPECTIONS PERFORMED THE BASELINE EXAMINATIONS PRIOR TO STARTING UP THE PLANT.

# CORE BARREL EXAMINATION SUMMARY REPORT

PAGE 25 OF 27

1. OWNER: FLORIDA POWER & LIGHT P.O. BOX 529100 MIAMI, FLORIDA 33152

2. PLANT:

ST. LUCIE P.O. BOX 128 FT. PIERCE, FLORIDA 33454 DATE: 9 AUGUST 1984

UNIT: 1

- 3. WORK COMBUSTION ENGINEERING,INC JOB NO. PC/M 037-184 PERFORMED 1000 PROSPECT HILL ROAD BY: EAST WINDSOR, CONNECTICUT
- 4. IDENTIFICATION REACTOR PRESSURE VESSEL, CORE BARREL OF SYSTEM:
- 7. DESCRIPTION PRECISION CUTTING, INC. PERFORMED THE MACHINING OF OF WORK: THE EXTERIOR SURFACE OF THE CORE BARREL

COMBUSTION ENGINEERING PERFORMED THE ENGINEERING SUPPORT OF THIS ACTIVITY AND PERFORMED THE EXAMINATIONS OF THE CORE BARREL. REPORT NO IR-ISI-029 DETAILS THOSE EXAMINATIONS THAT WERE PERFORMED. THE REPORT IS DIVIDED INTO 3 SECTIONS.

SECTION INTERVAL OF EXAMINATING SECTION TIPLE

Ĩ	JULY 1983 TO OCTOBER 1983	PRE REPAIR EXAMINATIONS
II	SEPTEMBER 1983 TO DECEMBER 1983	INPROCESS EXAMINATIONS
ILI	FEBURARY 1984	FINAL EXAMINATIONS

COMBUSTION ENGINEERING REMOVED THE THERMAL SHIELD

SECTION I - DETAILS THE EXAMINATIONS OF THE PSL-1 CORE BARREL. EACH LUG AREA WAS EXAMINED VISUALLY, AND MAPPED WITH EDDY CURRENT TECHNIQUES FOR LOCATING SURFACE FLAWS. THEN THESE AREAS WERE ULTRASONICALLY EXAMINED TO DETERMINE THE DEPTH OF THESE INDICATIONS.

> THE VISUAL EXAMINATION COVERED THE ENTIRE CORE SUPPORT BARREL THAT HAD BEEN COVERED BY THE THERMAL SHIELD, INCLUDING AN AREA 5" BELOW THE THERMAL SHIELD.

- SECTION II INPROCESS EXAMINATIONS REFER'S TO THOSE NONDESTRUCTIVE EXAMINATIONS PERFORMED AS PART OF THE MACHINING OPERATION.
- SECTION III THE FINAL VISUAL EXAMINATION WAS PERFORMED AFTER THE COMPLETION OF THE REPAIR. THE VISUAL EXAMINATIONS COVERED THE MACHINE LUG AREAS, AND THE MECHANICALLY ATTACHED PLUGS AND PATCHES AND AN AREA SETWEEN AND IMMEDIATELY ADJACENT TO

THE PLUGS AND PATCHES.

THE RESULTS WERE DOCUMENTED ON VIDEO TAPES AND PHOTOGRAPHS.

THE RESULTS ARE AS FOLLOWS:

- 1) NO NEW CRACKS OR CRACK LIKE INDICATIONS WERE DISCOVERED AS A RESULT OF THE INSTALLATION OF THE PLUGS AND PATCHES.
- 2) KNOWN CRACKS OR CRACK LIKE INDICATIONS WITHIN THE REPAIRED AREA WERE EXAMINED AND DOCUMENTED.
- 3) NICKS, SCRATCHES AND SHINY AREAS AROUND THE REPAIRED AREA WERE NOTED FOR FUTURE REFERENCE.

CERTIFICATE OF	COMPLIANCE	
To certify that the statements made the examinations performed were in ASME Code.	in this report are correct accordance with Section X	ct and I of the
cianad I I wanted APPL	PNS SECTION SUPERVISOR	AUG 1984

FORM NIS-BB OWNERS' DATA REPORT FOR EDDY CURRENT EXAMINATION RESULTS As required by the provisions of the ASME CODE RULES

PAGE 27 OF 27

PLANT		UCIE UNIT NO		THRU 5 APRIL	1984	
STEAM GEN. NO.	TOTAL TUBES INSPE- CTED	TOTAL INDICATION > OR = TO 20% TO 39%	TOTAL INDICATION > OR = TO 40% TO 100%	TOTAL TUBES PLUGGED AS PREVENTIVE MAINTAINANCE	TUBES PLUGGED IN ERROR	TOTAL TUBES PLUGGED
SG 1A	- 1008-	81	45	136		263
SG 1B	1003	-104	14	122	- 3	243

# LOCATION OF INDICATIONS

GEN.	APEX OF EGGCRATES U-BENDS 1 THRU 5		TOP OF TUBE SHEET TO 1 ST. EGGCRATE	DRILLED SUPPORT PLATE	
SG 1A	54	20	17	25	
SG 13	91	11	4	12	

	CERTIFICATION OF RECORD
We certify that the inspected were test of the ASME Code.	statements in this record are correct and the tubes ed in accordance with the requirements of Section XI
	FLORIDA POWER & LIGHT COMPANY ( Organization )
DATE 9 AUGUST 1984	In N++

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FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules page 1 of 2

Florida Power and Light Co. 9250 W. Flagler, Miami, Fla.

1. Owner

(Name and address of Owner)

St. Lucie Nuclear Power Plant (formerly Hutchinson Island), P.O. Box 128, Ft. Pierce, F1 33454

2. Plant

(Name and address of Plant)

3. Plant Unit 1

4. Owner Certificate of Authorization (if required) N/A

5. Commercial service date 21 DECEMBER 1976

6. National Board Number for Unit N/A

7. Components Inspected

Component or Appurtanance	Manufacturer or Installer	Manufacturer or Installe Serial No.	State or Province Number	National Board Number
RPV VESSEL	COMBUSTION ENG.	N/A	N/A	N/A
PRESSURIZER	COMBUSTION ENG	N/A	N/A	N/A
STM. GEN.	COMBUSTION ENG	N/A	N/A	N/A
REACTOR COOLANT	EBASCO		N/A	N/A
SAFETY INJECTION	EBASCO	N/A	N/A	N/A
MAIN STEAM	EBASCO	NZA	N/A	N/A
FEEDWATER	EBASCO	N/A	N/A	N/A

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

page 2 of 2

## FORM NIS-1 (back)

8.Examination Dates 3-2-83 to 5-16-84

9. Inspection Interval from 6 2/3 YEARS to 10 YEARS

 Abstract of Examination. Include a list of examinations and a statement concerning status of work required for current interval.

This report satisfies the first outage of the last period of commercial operation. (see SWRI FINAL REPORT 5179)

11. Abstract of Conditions Noted.

See SWRI Report 5179 " 1984 Inservice Inspection Report Vol 1 - 6 "

12. Abstract of Corrective Measures Recommended and Taken.

ALL AREAS REQUIRING CORRECTIVE ACTIONS WERE DISPOSITIONED

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI. Date <u>9 AUGUST 1984</u> Signed <u>FLORIDA POWER & LIGHT CO</u> By Owner

Certificate of Authorization no. (if applicable) N/A Expiration date N/A

# CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OHIO and employed by \* of NORWOOD, MASS have inspected the components described in this Owners' Data Report during the period 3-2-83 to 5-16-84 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

1984 Dayel FACTORY MUTUAL SYSTEM Charles a Fiallo Commissions NB-7719 Inspector's Signature National Board, state, Province and No.

ARKWRIGHT BOSTON MEG'S MUTUAL INSURANCE COMPANY